

AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL 5--ETC F/6 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
NORDA-TN-73-VOL-2

UNCLASSIFIED

NL

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

17

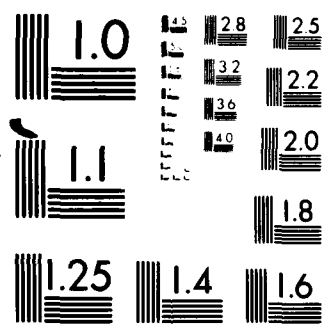
17

17

17

17

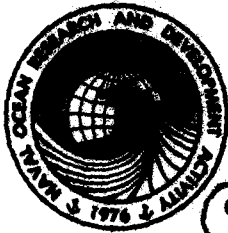
17



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

Naval Ocean Research
and Development Activity

NSRL Station, Mississippi 39529



LEVEL II

11

NORDA Technical Note 73

NORDA-TN-73-VOL-2

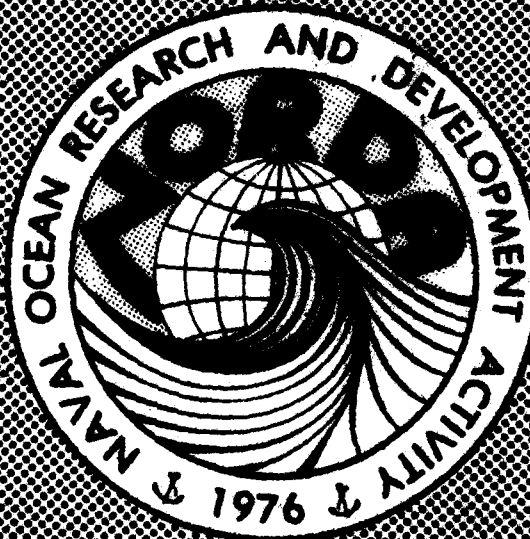
6

**Acoustic Model Sensitivity to Input
Data Differences: Objective Analysis
Scheme Outputs, Volume II.**

9

Final rev. 1 Oct 79-30 Sep 80.

AD A098932



THIS DOCUMENT IS BEST QUALITY PRACTICABLE.
THE COPY FURNISHED TO DDC CONTAINED A
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.

Unlimited Distribution
FILE COPY

DTIC
ELECTE
S MAY 14 1981 **D**

A

10 **WILL A. BRUNSON**

12 **640**

Numerical Modeling Division
Ocean Science and Technology Laboratory

11 **XXXXXXXXXX**

392723

This document has been approved
for public release and sale; its
distribution is unlimited.

81 5 14 100

DISCLAIMER NOTICE

**THIS DOCUMENT IS BEST QUALITY
PRACTICABLE. THE COPY FURNISHED
TO DTIC CONTAINED A SIGNIFICANT
NUMBER OF PAGES WHICH DO NOT
REPRODUCE LEGIBLY.**

ABSTRACT

This volume of the Acoustic Model Sensitivity to Input Data Differences report contains the printed and graphical outputs of the objective analysis scheme employed in the determination of the acoustic model sensitivity to input data differences observed in a comparison of the SIMAS and ICAPS data bases. These outputs serve to substantiate the observations and conclusions contained in Volume I of this report. The sensor ID codes provided on each plot or printout allow the reader to determine the sensor configuration used in each analysis case. The key is provided in Table D1 of Volume I.

Accession For	
NTIS GRA&I	<input checked="checked" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
By	
Distribution	
Availability	
Dist	
A23 G7	

CONTENTS

	<u>Page</u>
ABSTRACT	i
A. PROPAGATION LOSS COMPARISON PLOTS	Ai
1. Introduction	Ai
2. Plot Description	Ai
3. Propagation Loss Comparison Plots	1-168
B. SENSOR PERFORMANCE PLOTS	Bi
1. Introduction	Bi
2. Plot Description	Bi
3. Sensor Performance Plots	169-336
C. SENSOR PERFORMANCE CHART	Ci
1. Introduction	Ci
2. Chart Description	Ci
3. Sensor Performance Charts	337-636

A. Propagation Loss Comparison Plots

1. Introduction

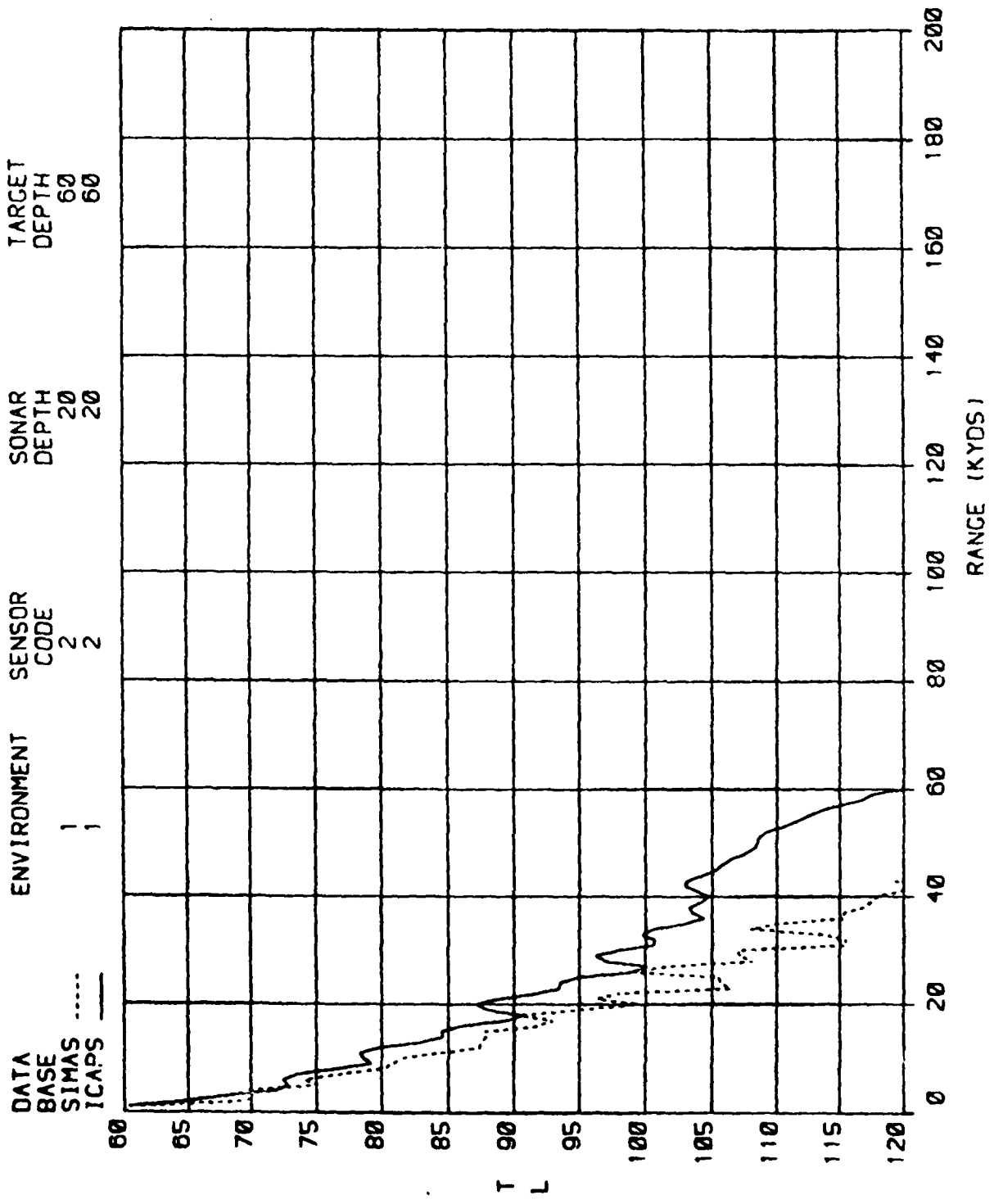
This section of the Acoustic Model Sensitivity to Input Data Differences report consists of a collection of propagation loss comparison plots. The plots result from the exercising of the acoustic model RAYMODE as implemented in the Sonar Insitu Mode Assessment System. The model runs were executed on a DEC PDP-11 minicomputer. Input environmental data were derived from the SIMAS and ICAPS data bases for six selected environments. The model was exercised for each data base, for each environment, for 28 selected ASW sensor configurations. Thus a total of 336 model runs were made resulting in the 168 comparison plots provided in this section.

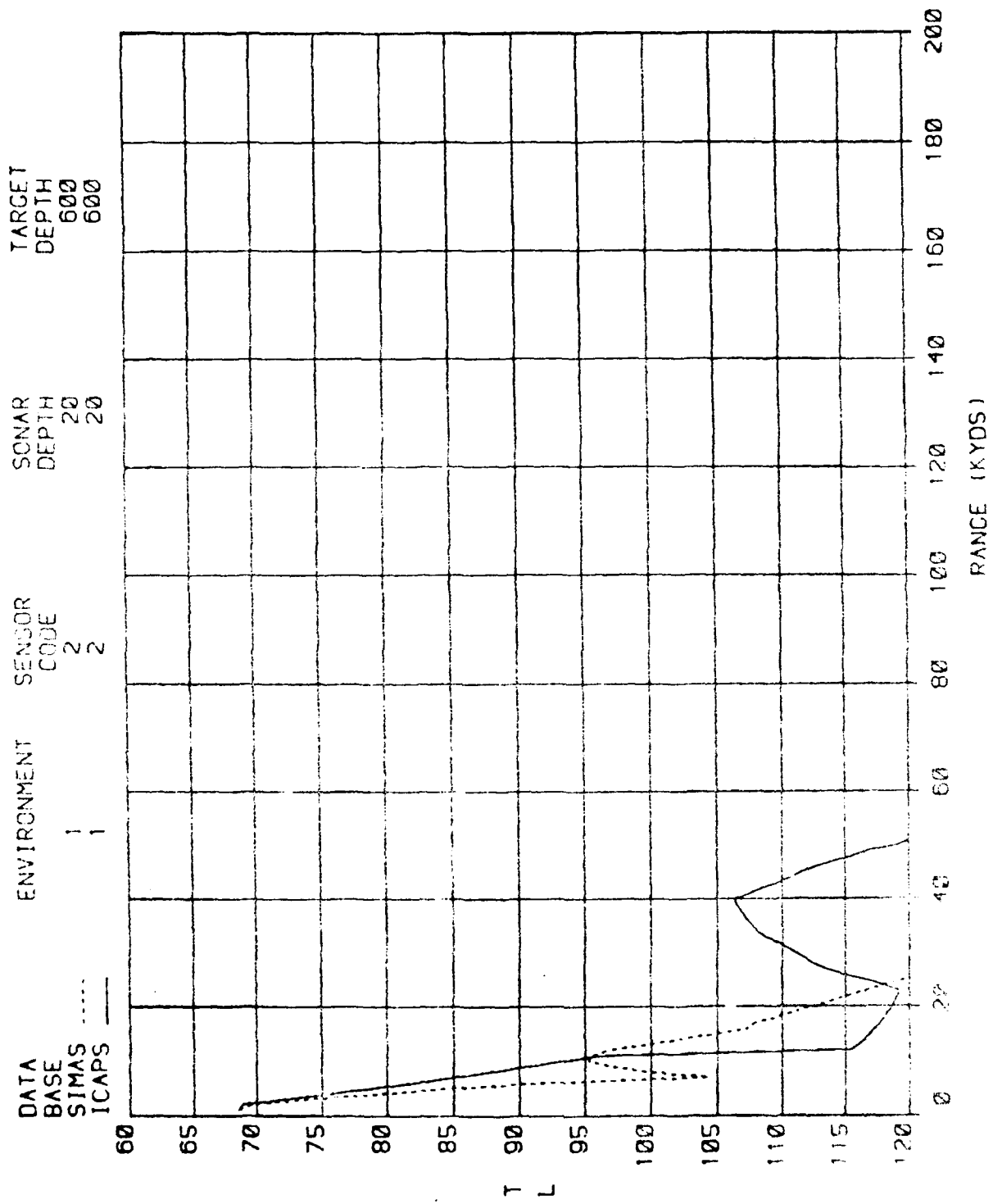
2. Plot Description

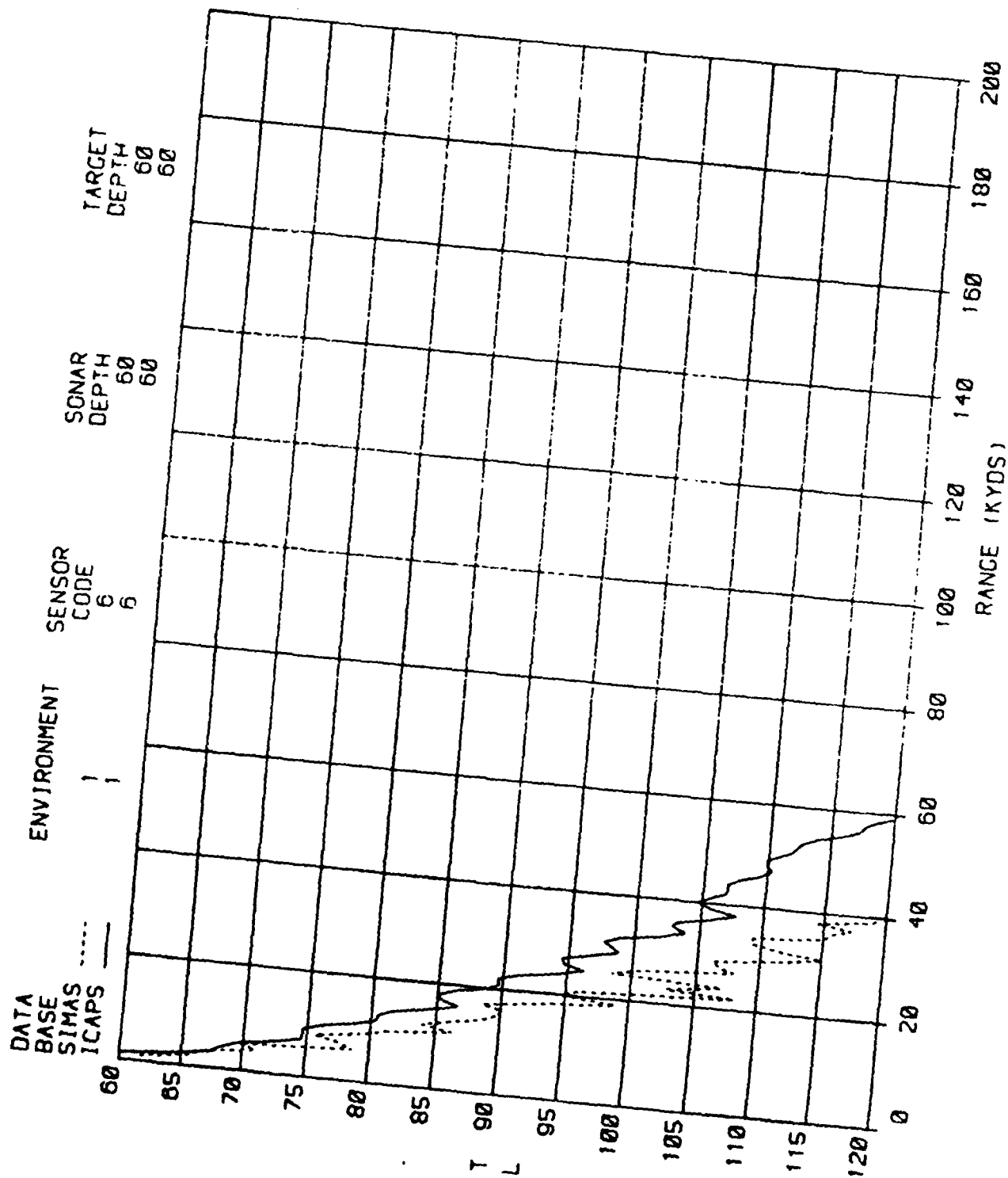
The plot format is identical for each case run. Propagation Loss (or transmission loss, TL) in decibels (relative to the acoustic intensity at one yard) is plotted as a function of range in kiloyards. The TL scale extends from 60 dB to 120 dB in 5 dB increments. The calculations were actually made over the interval 1 to 200 kiloyards in 1 kiloyard increments.

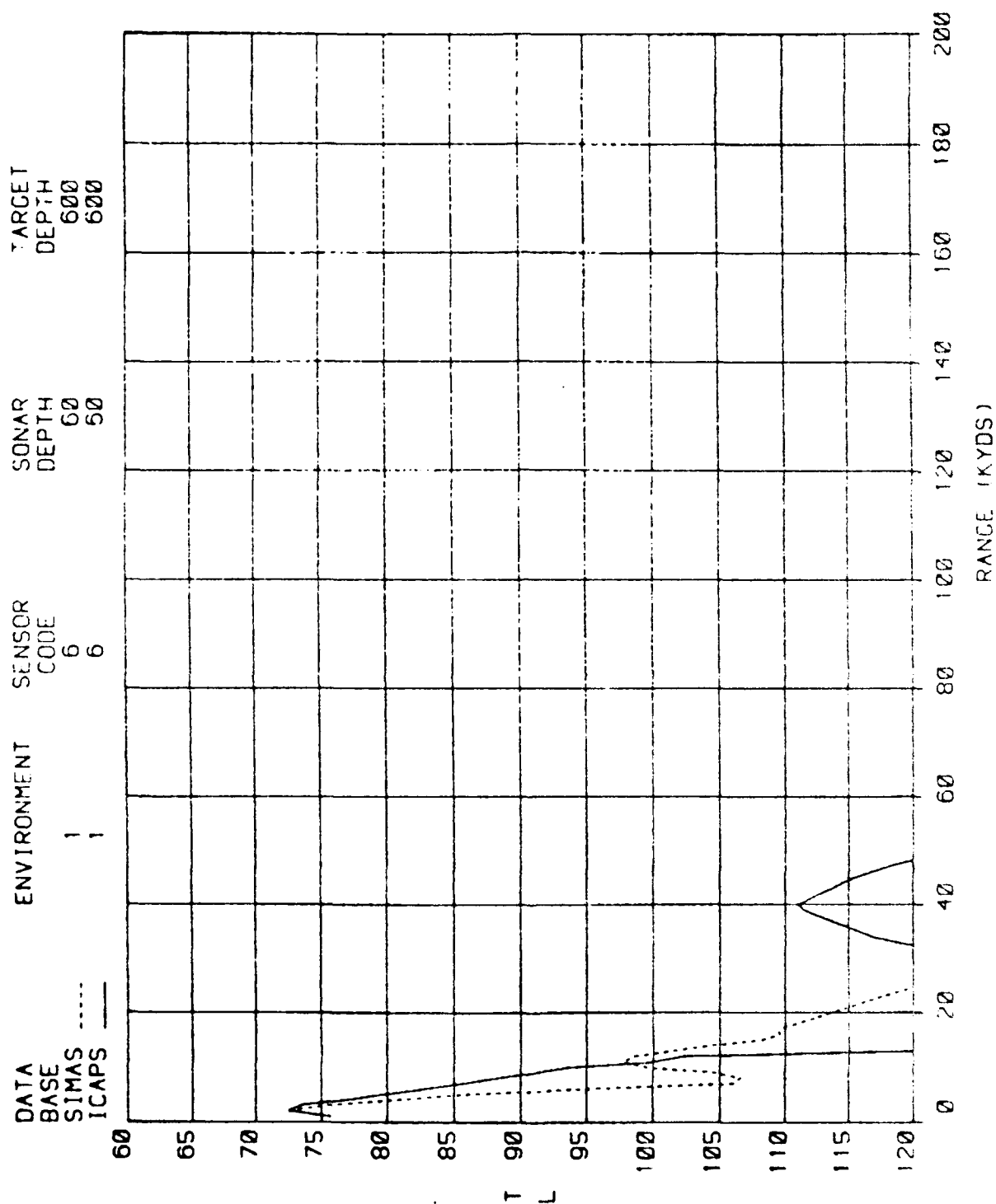
Each plot contains a header which delineates the data base, environment, sensor code, sonar depth (feet), and target depth (feet). The actual curves consist of a dashed curve representing TL calculated using SIMAS data and a solid line calculated using ICAPS data. A full description of the environment may be found in Volume I Section B. The characteristics of the sensors including designation, frequency, and vertical beamwidth may be found in Volume I Section D.

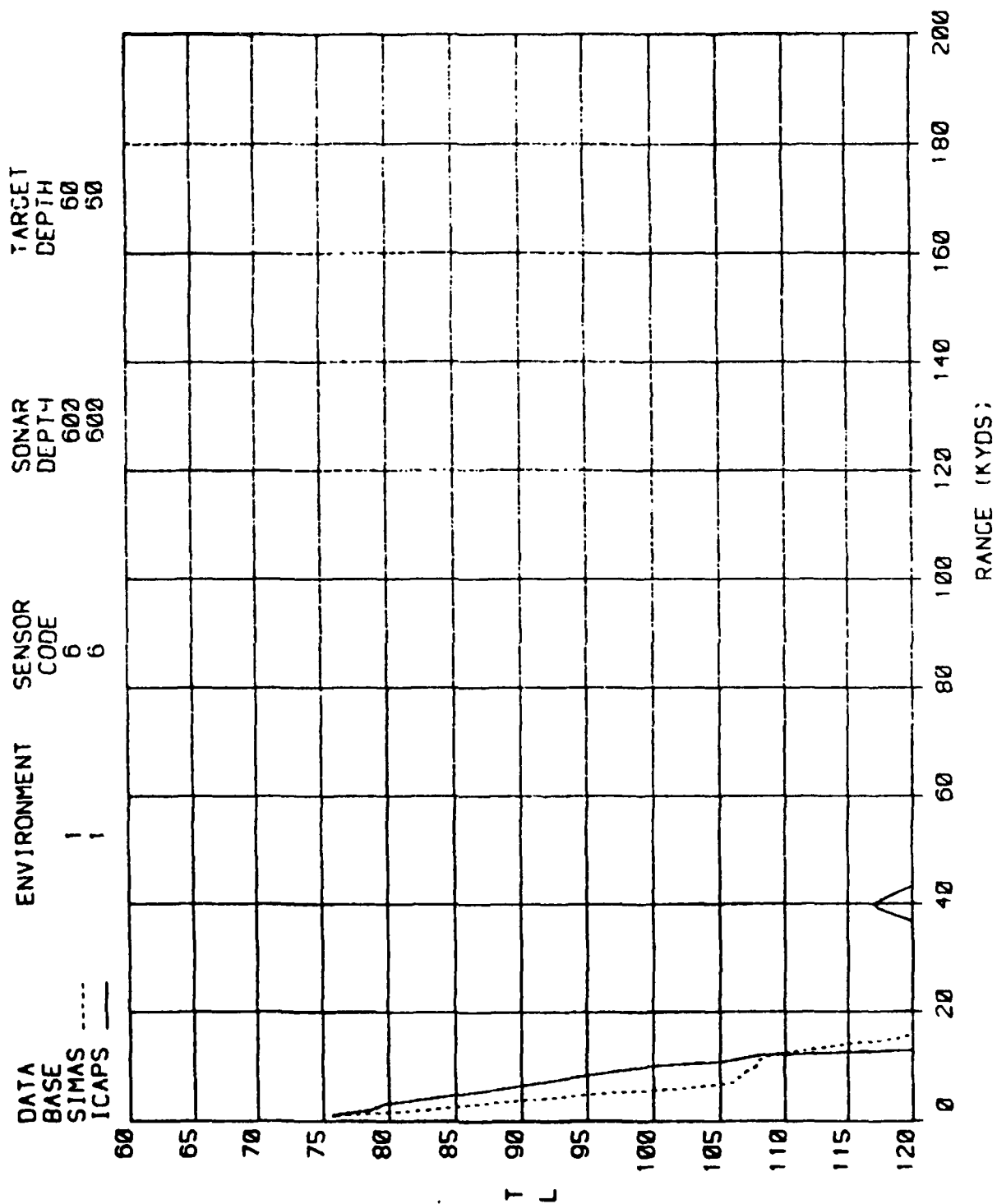
Each plot has been characterized by a written description including probable causes for observed differences between the two curves. These may be found as Propagation Loss Summary Description Tables in Volume I, Section E.

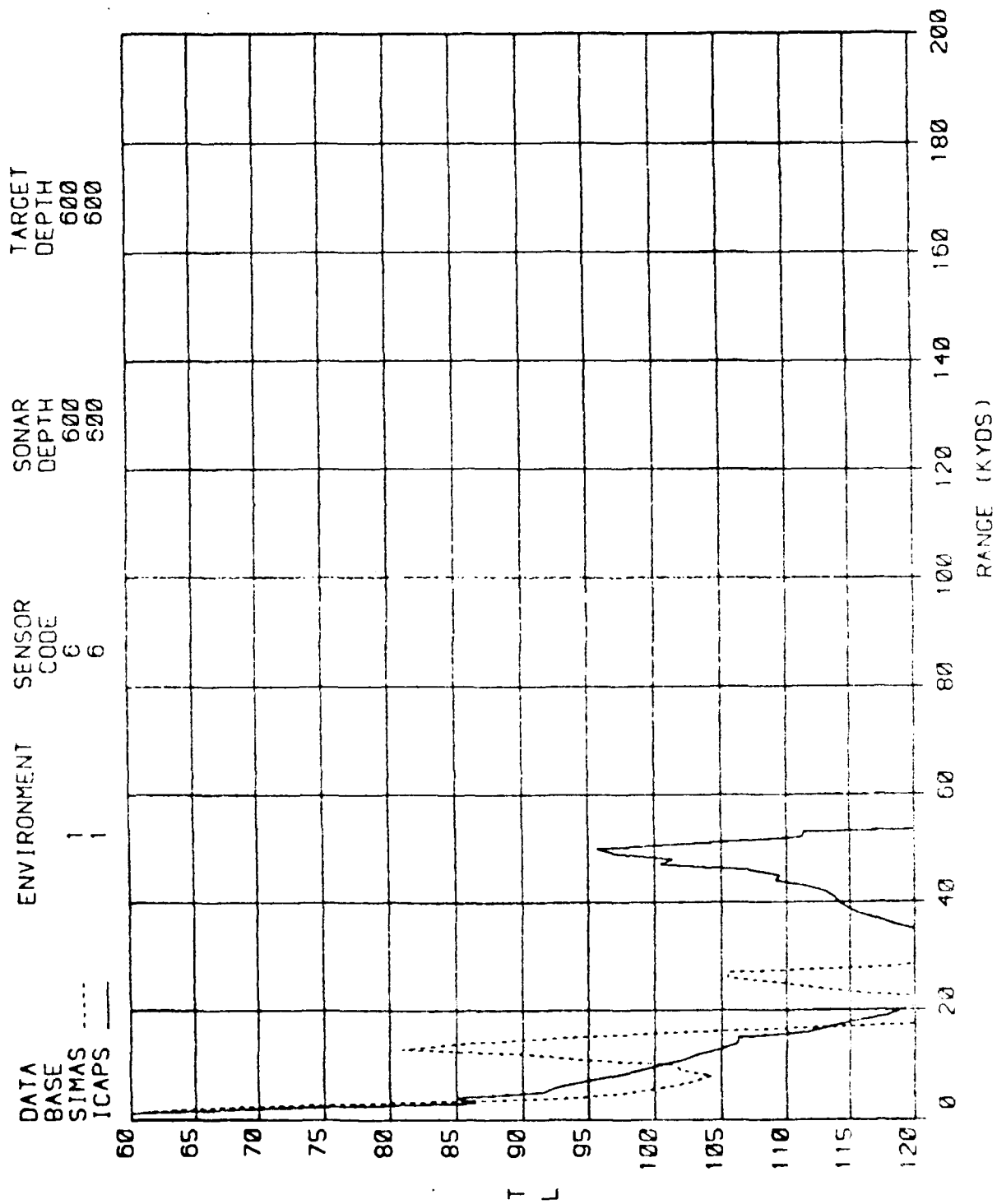


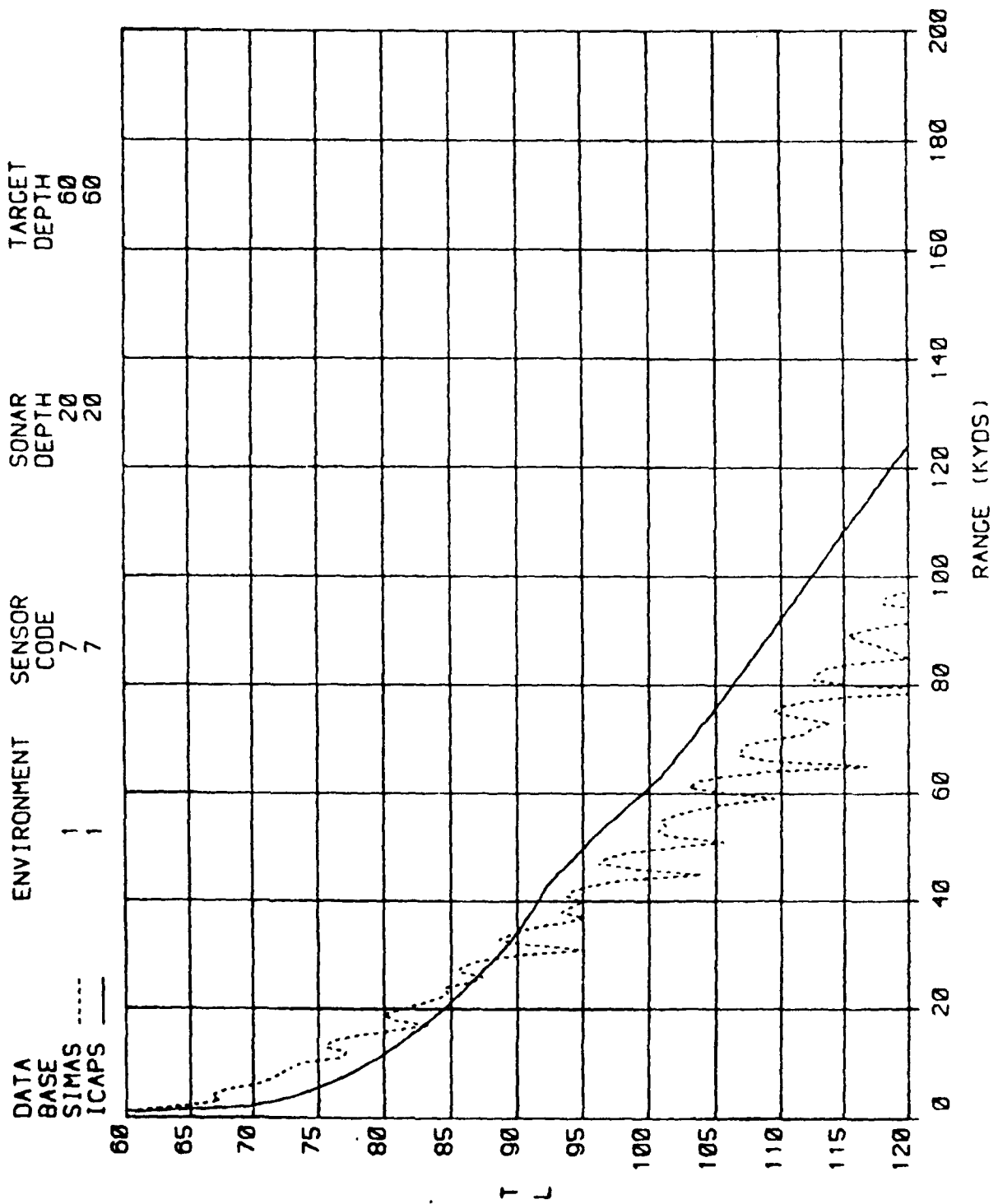


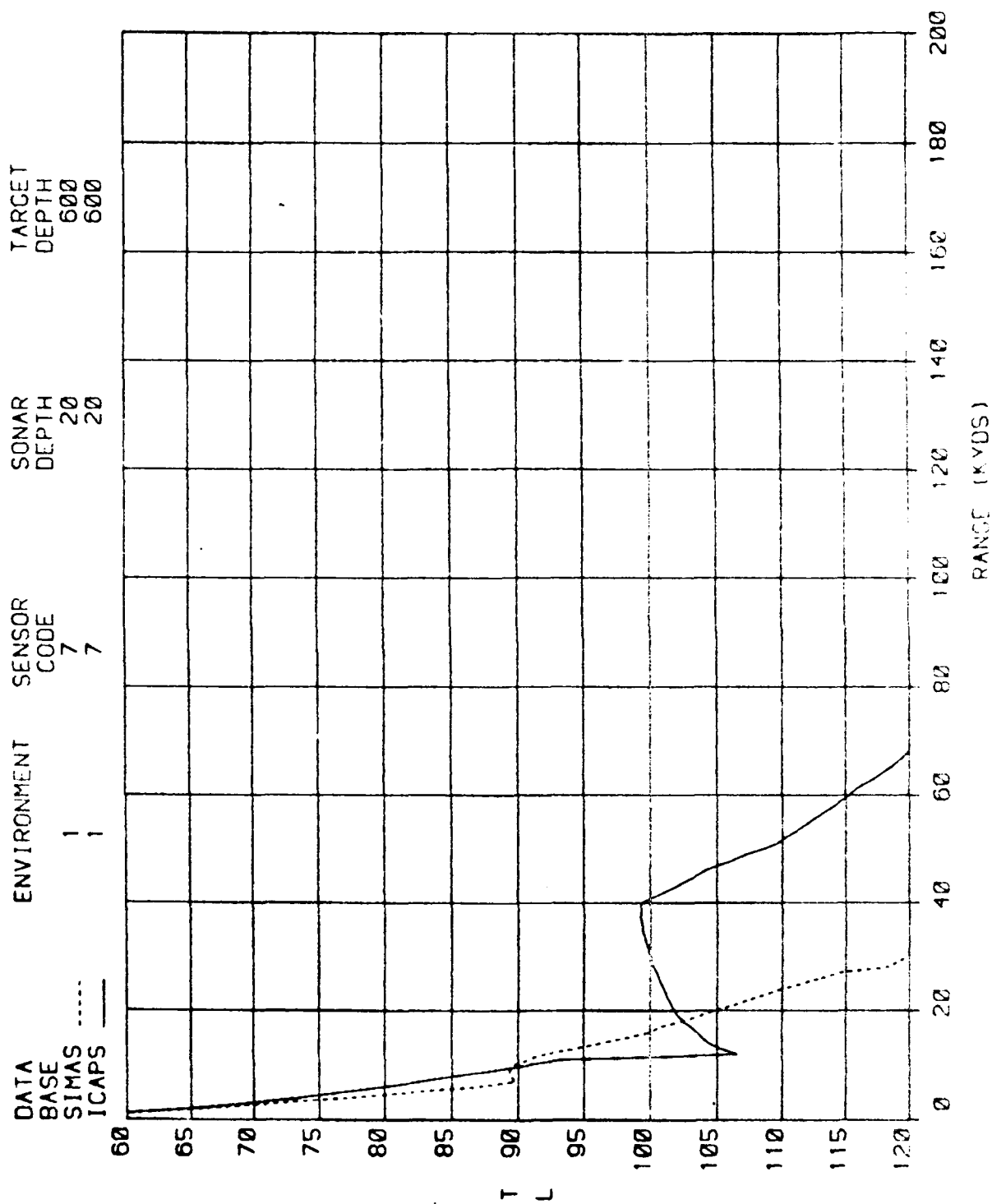


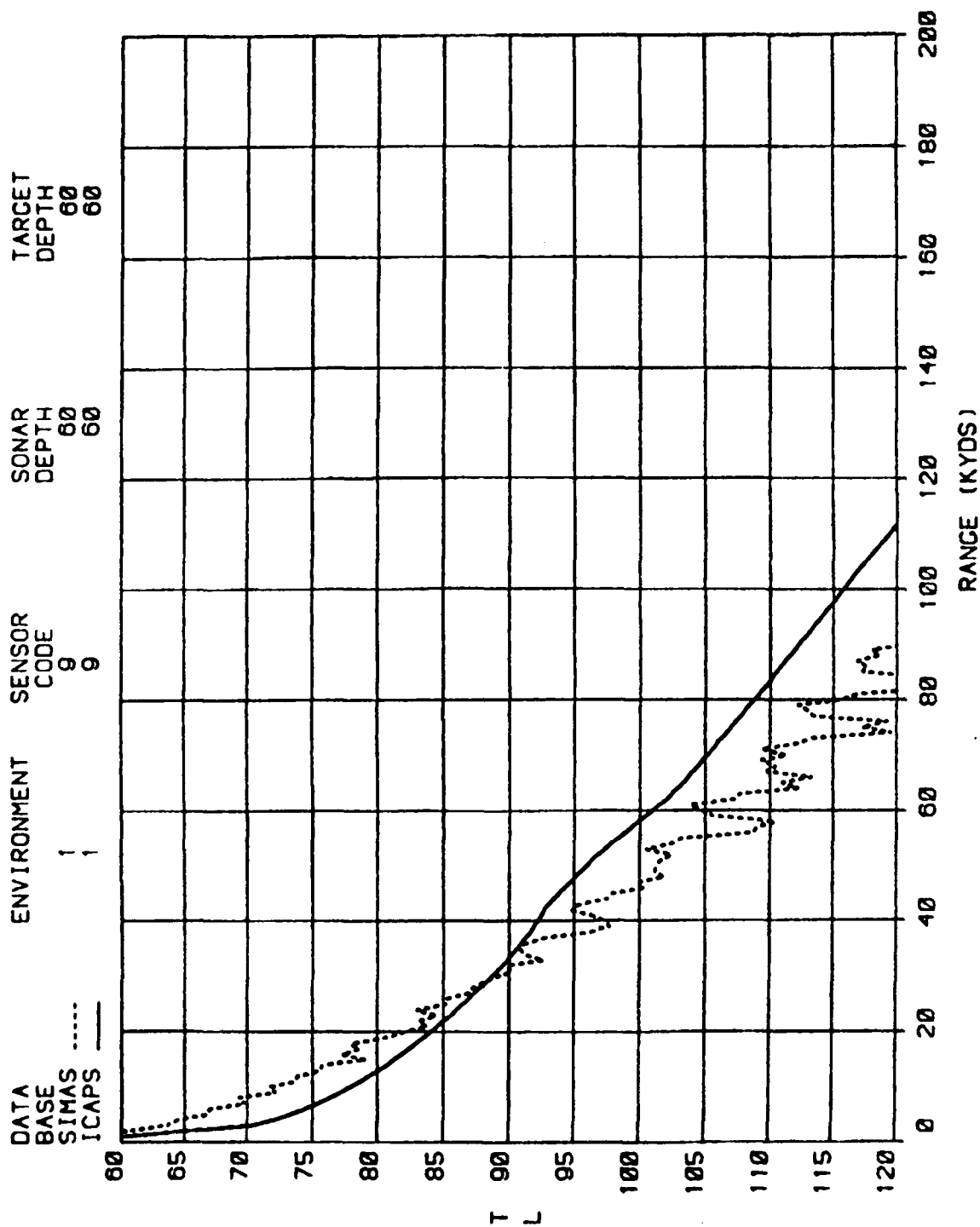


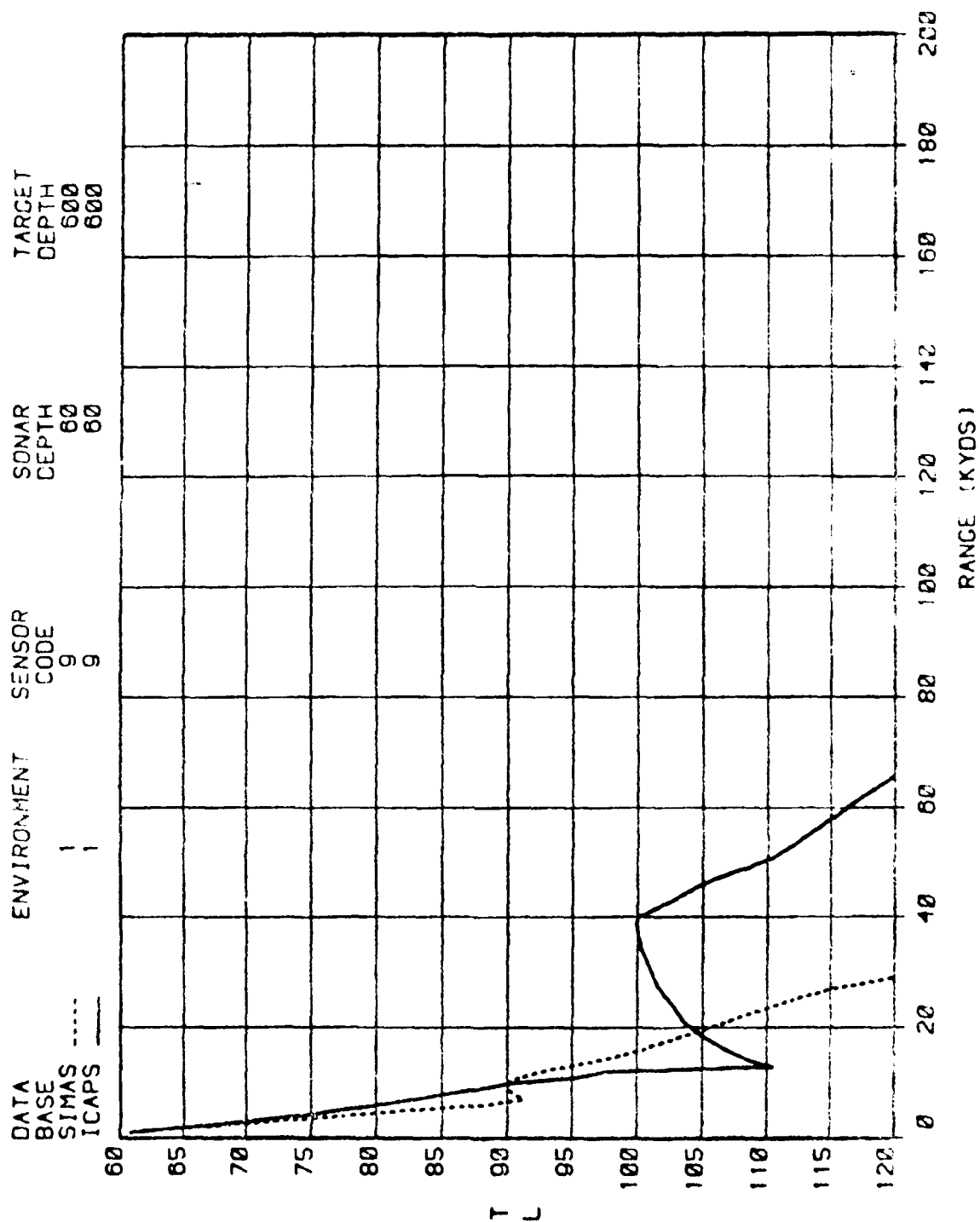


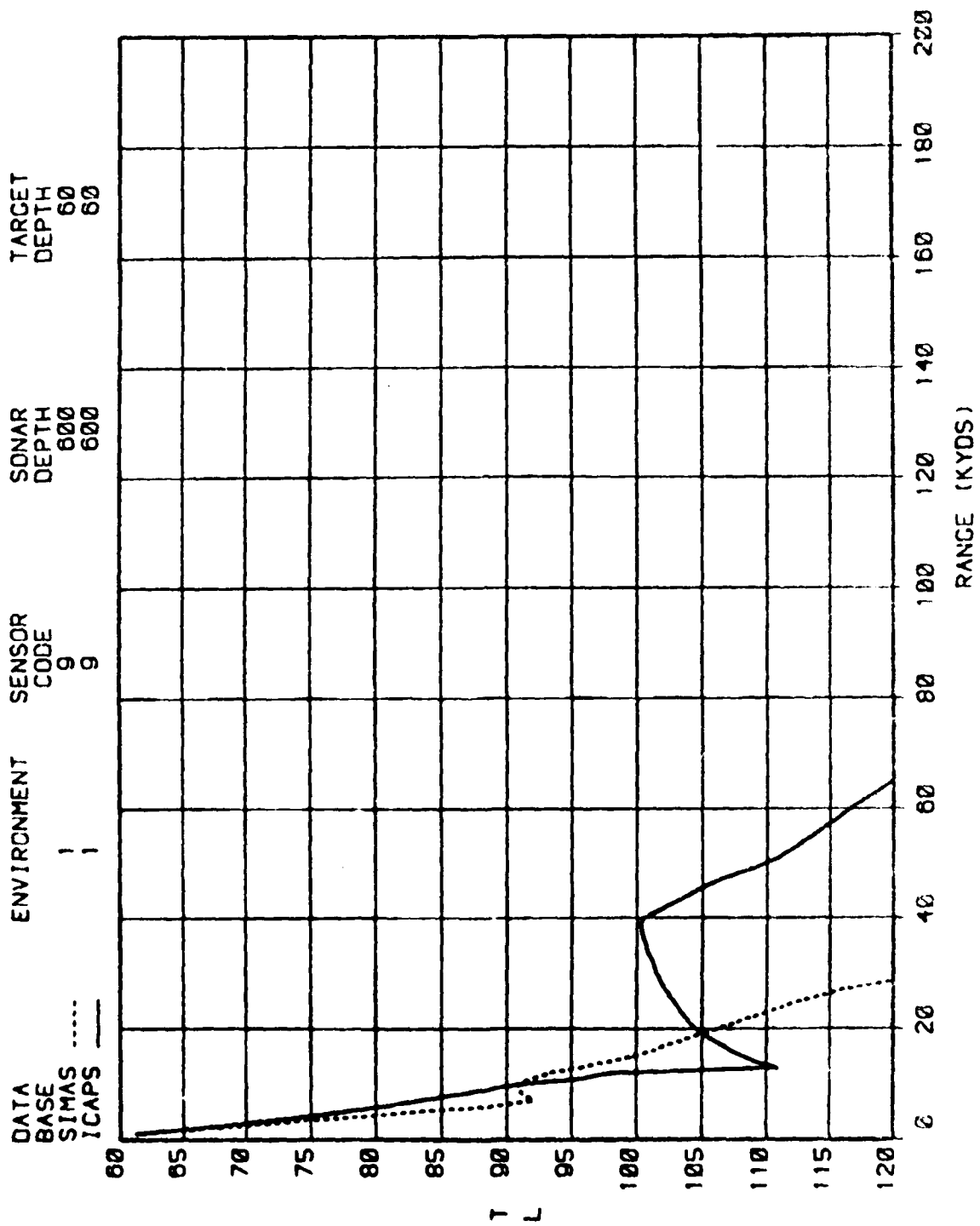


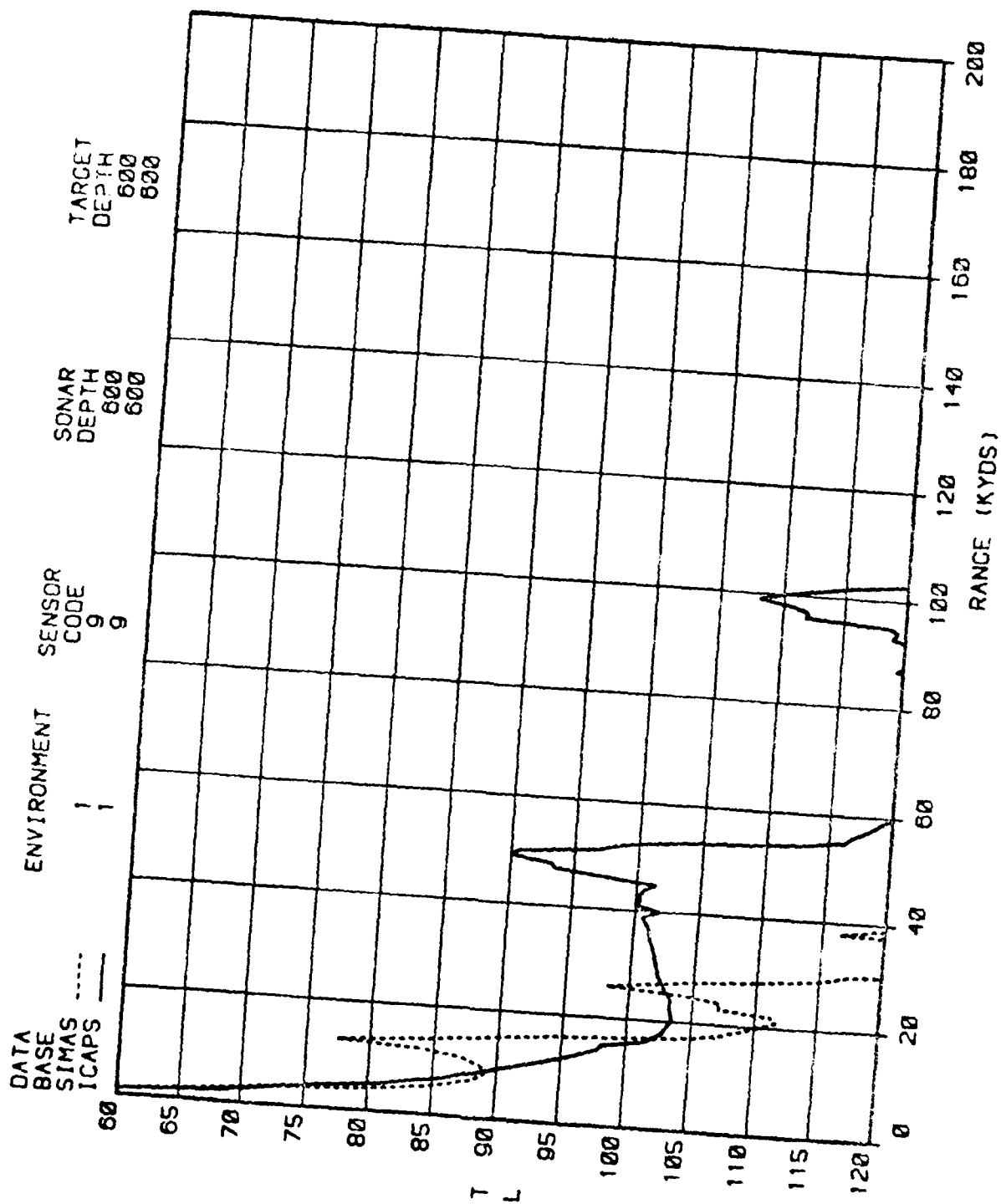


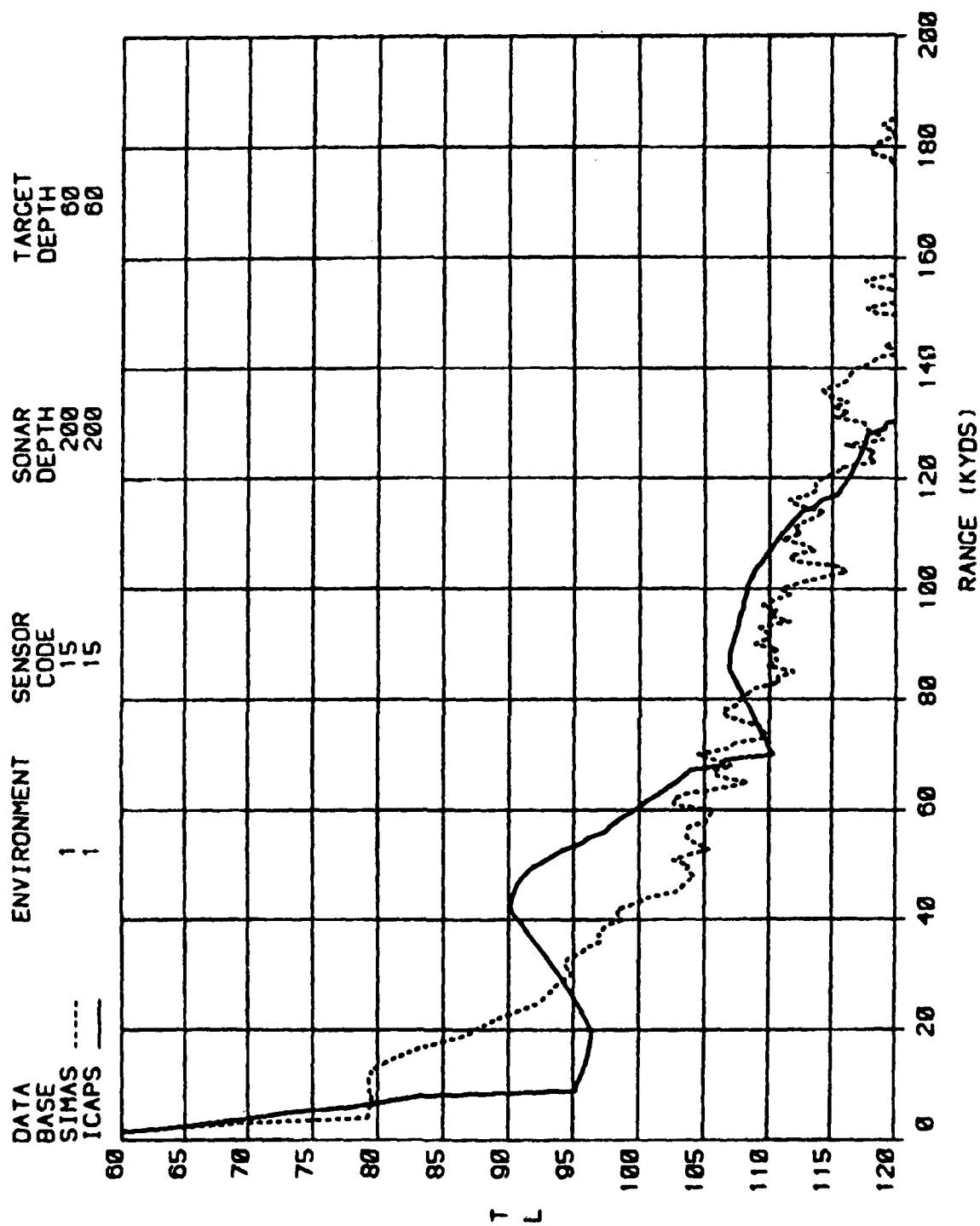


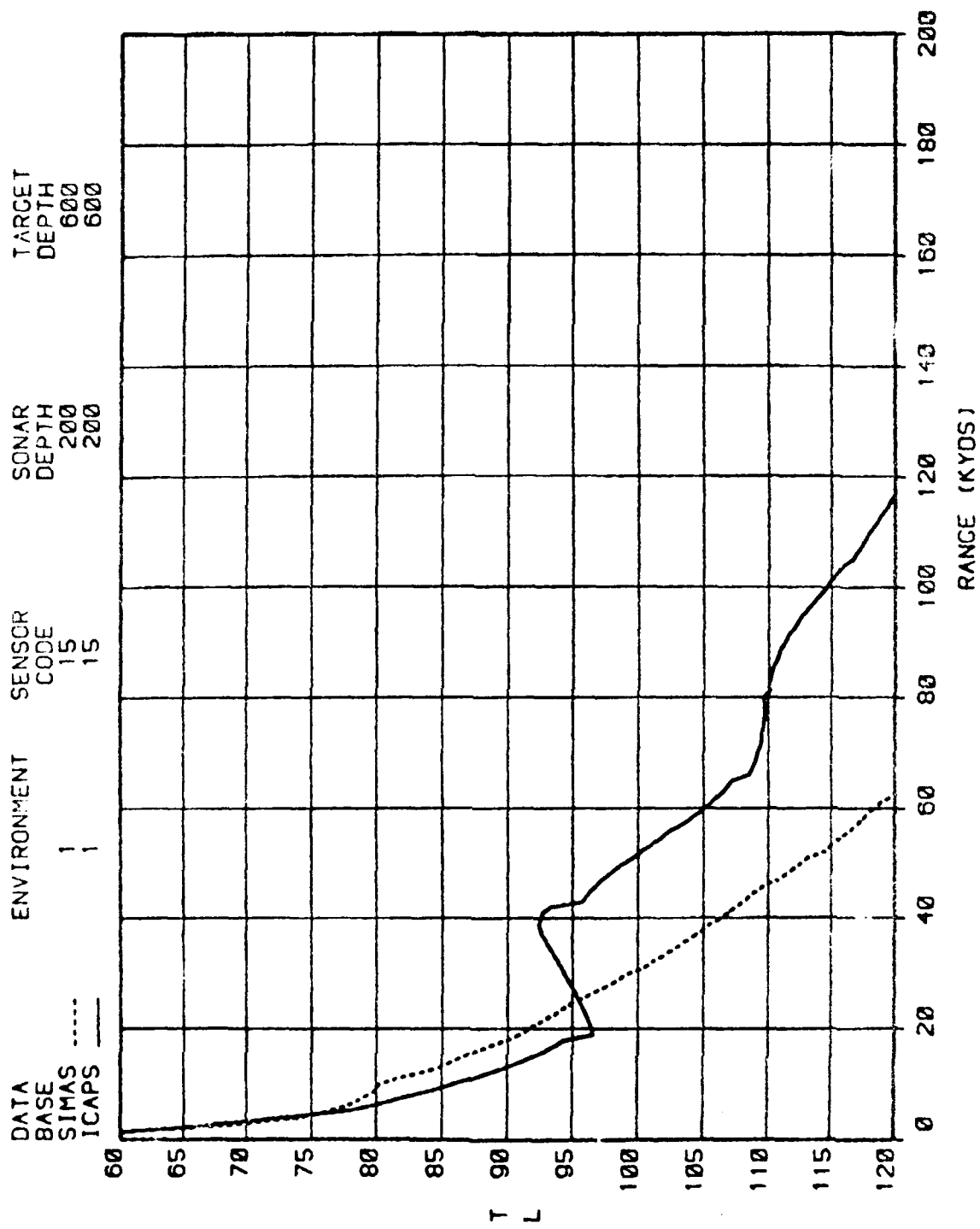


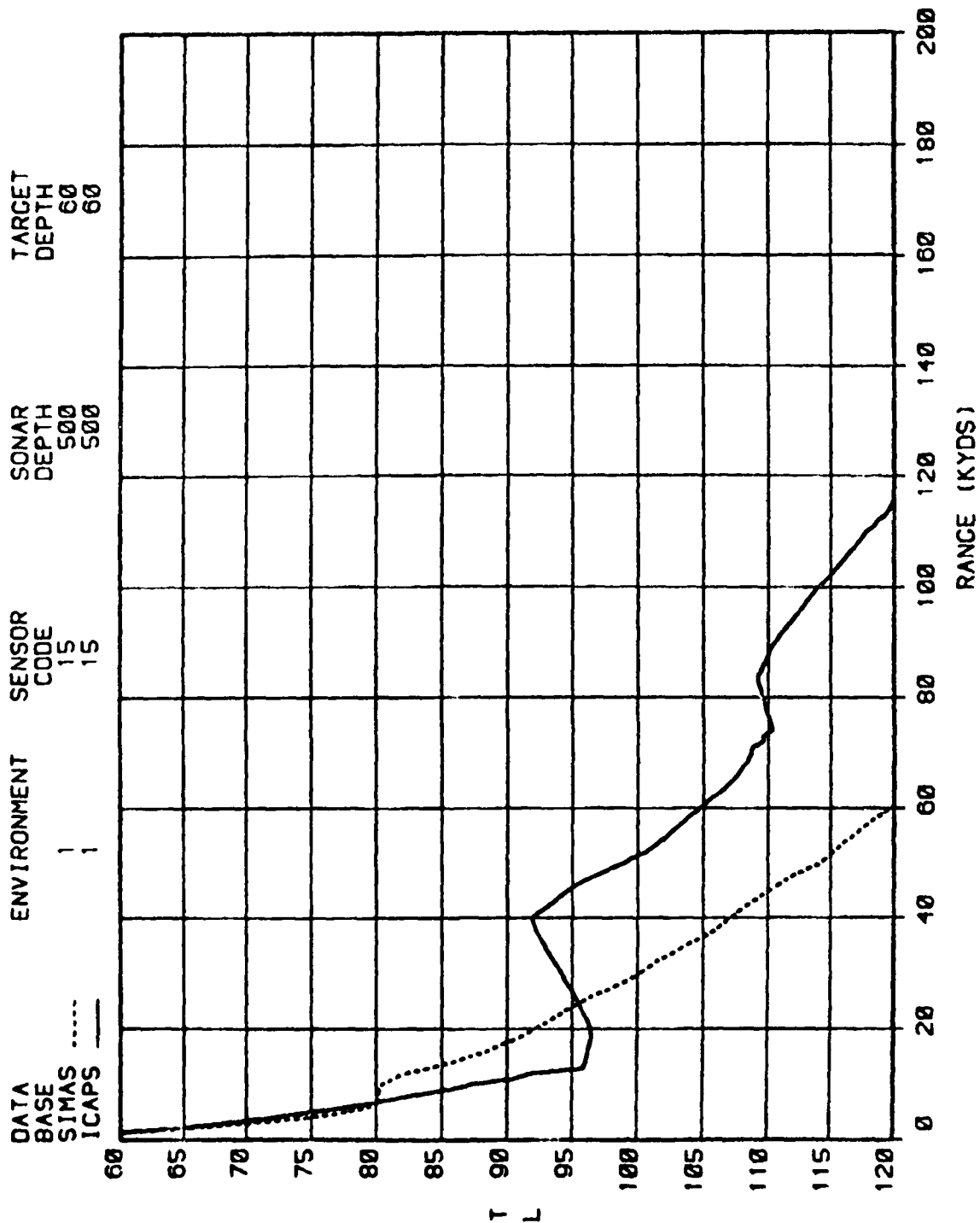


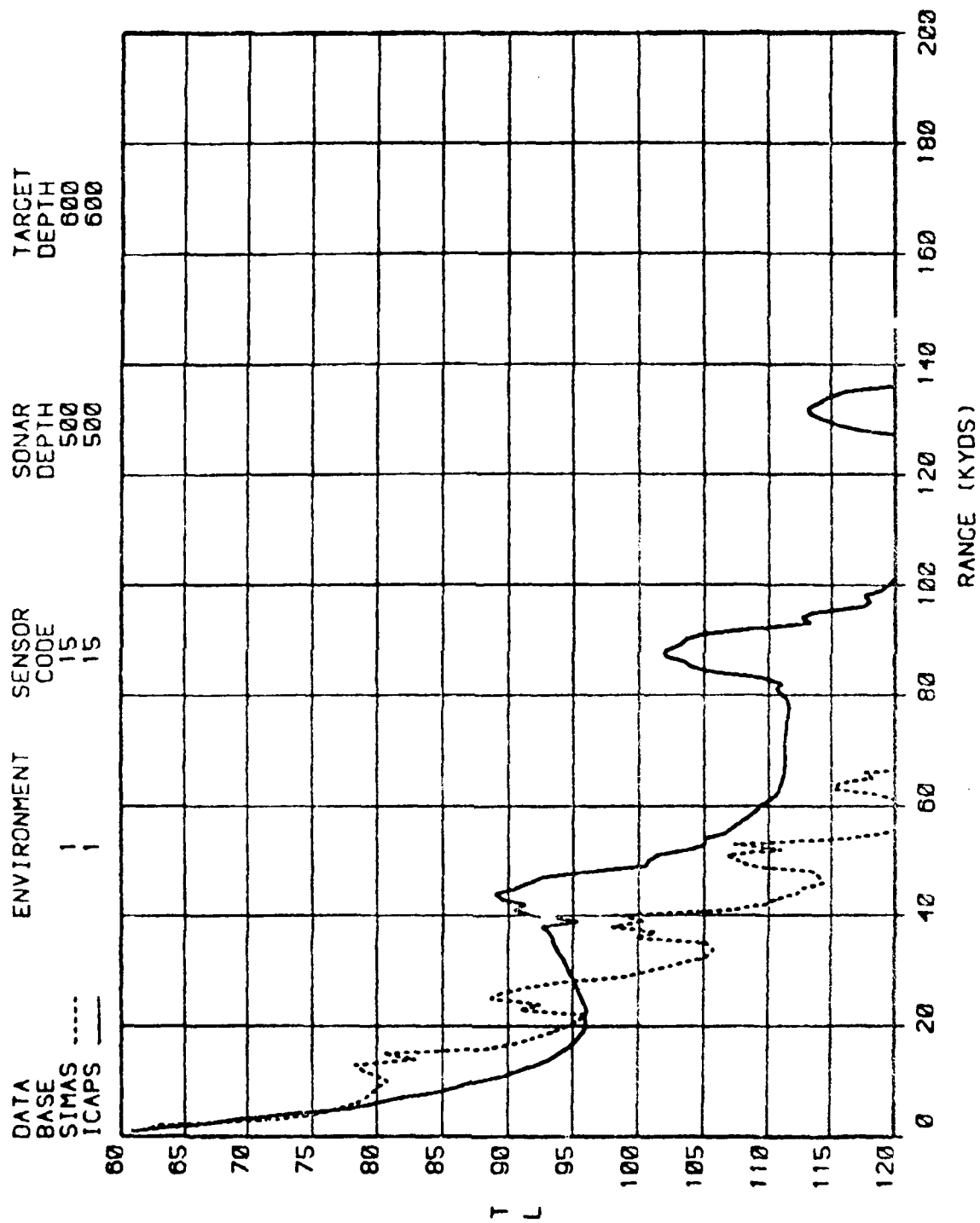


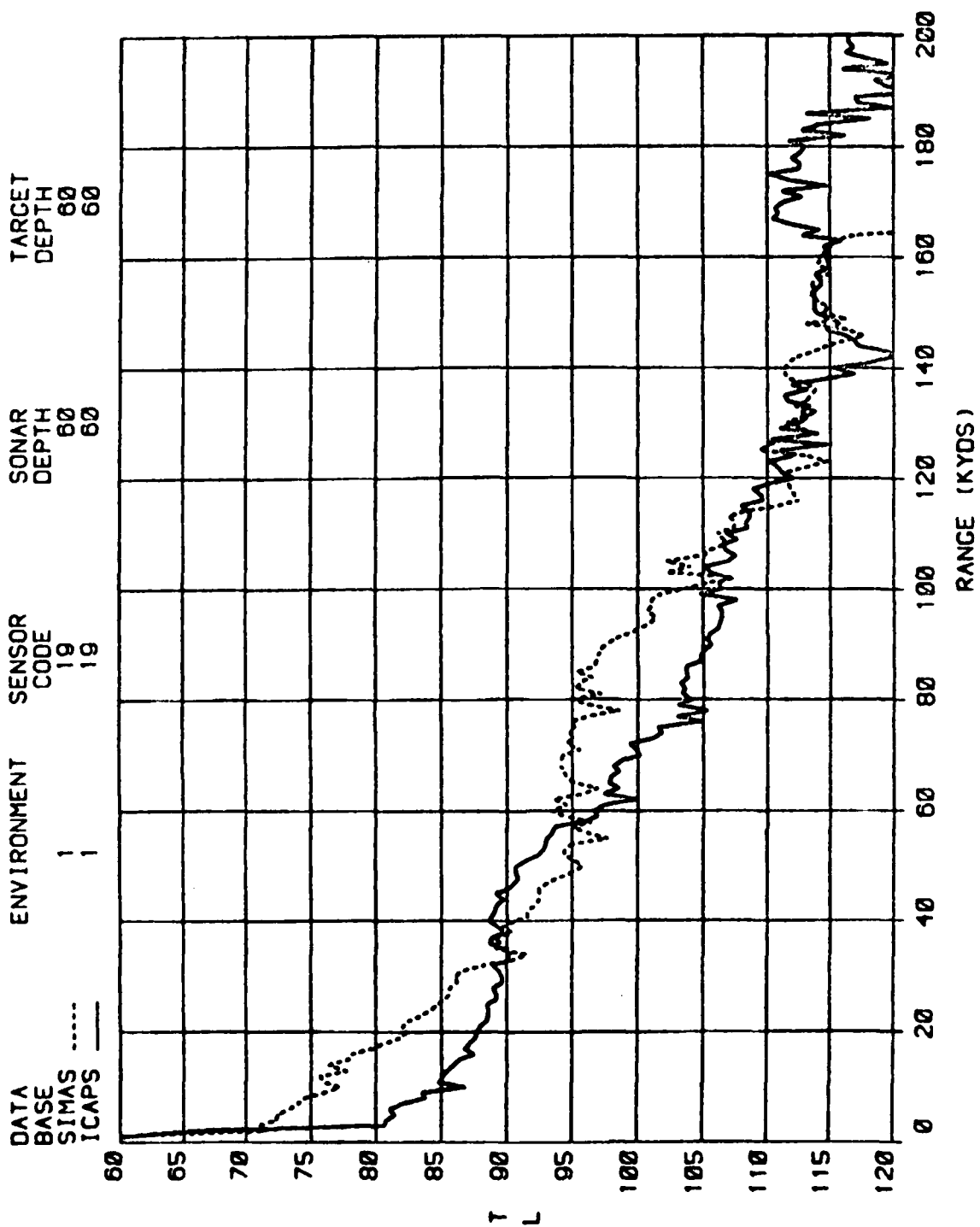


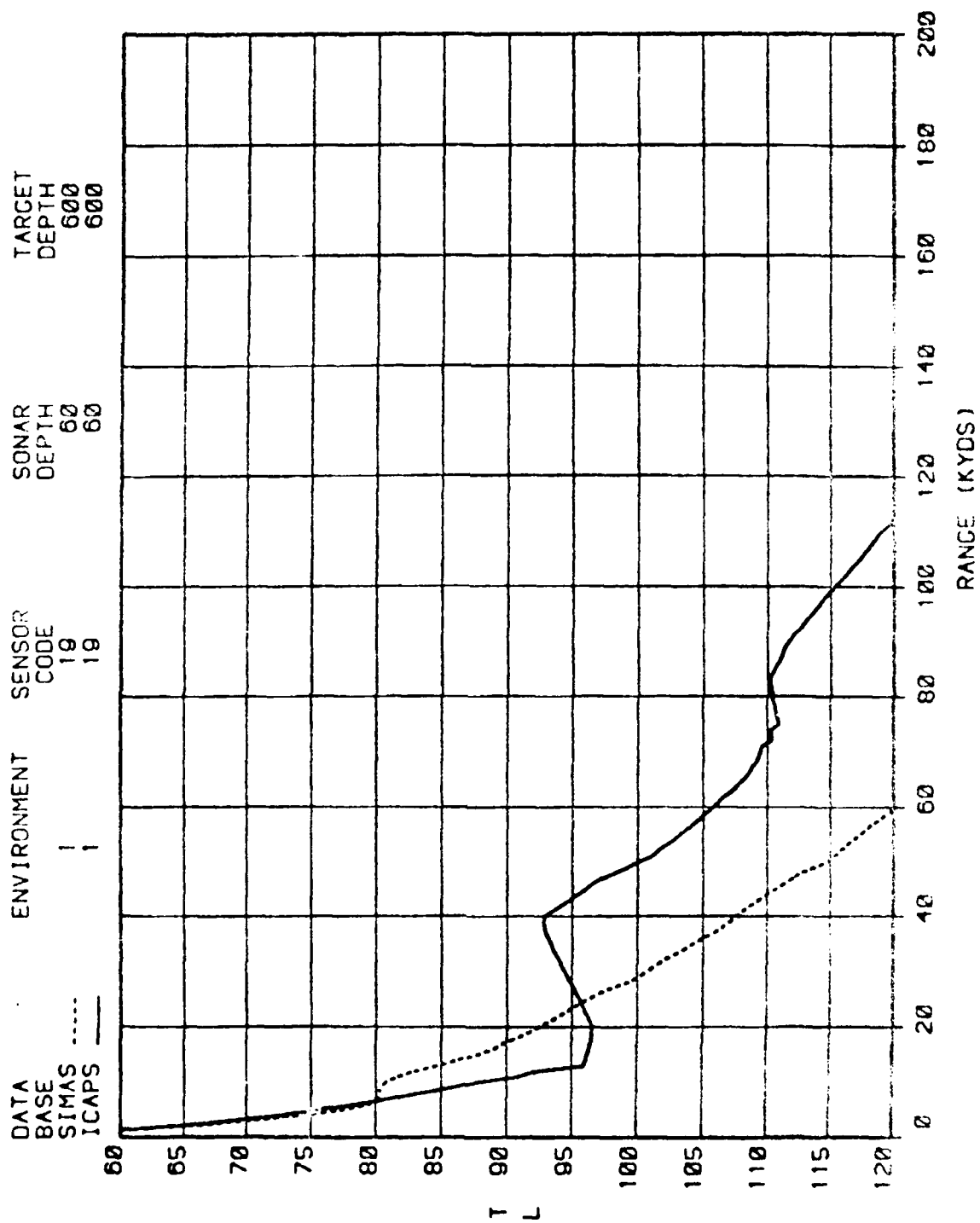


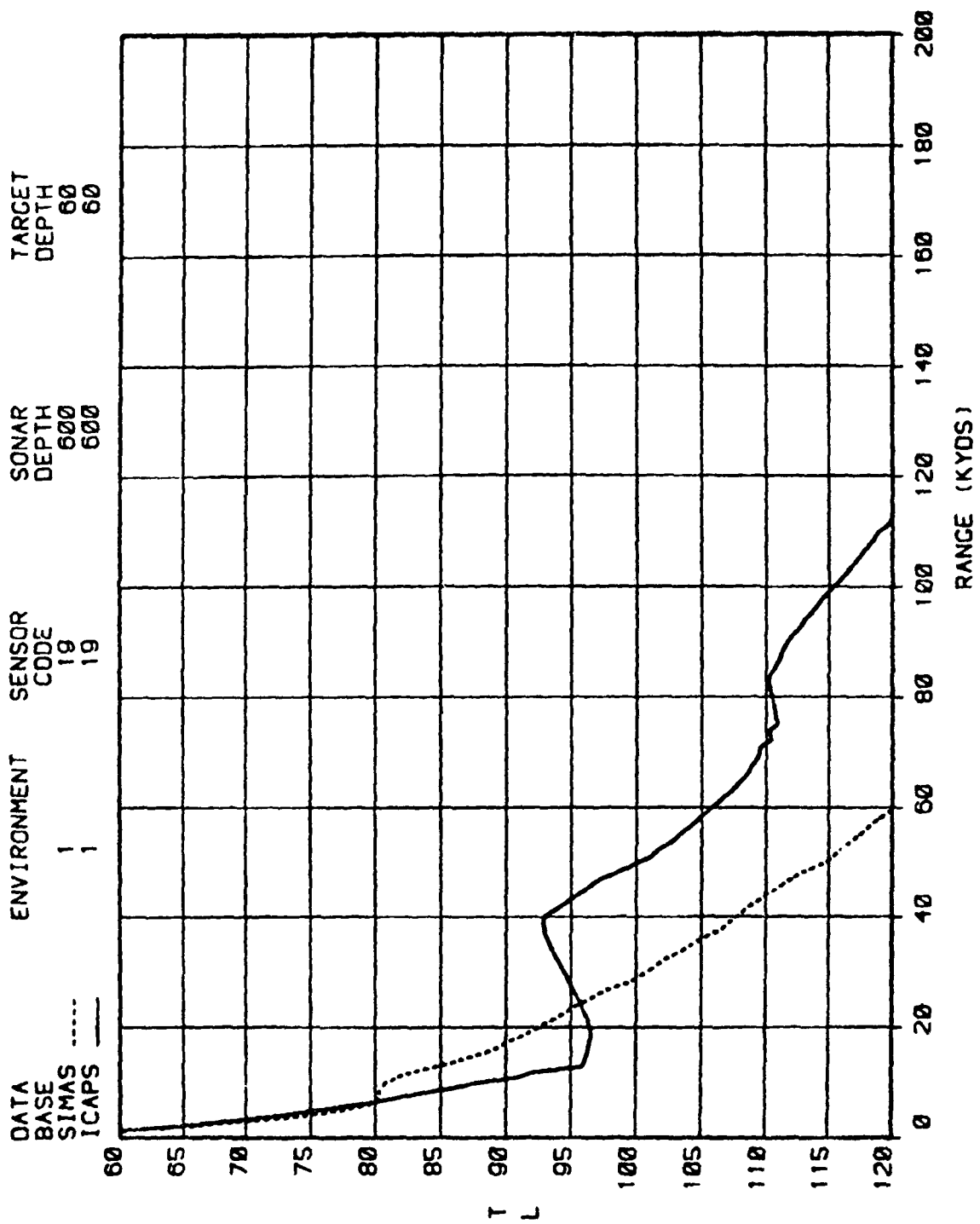


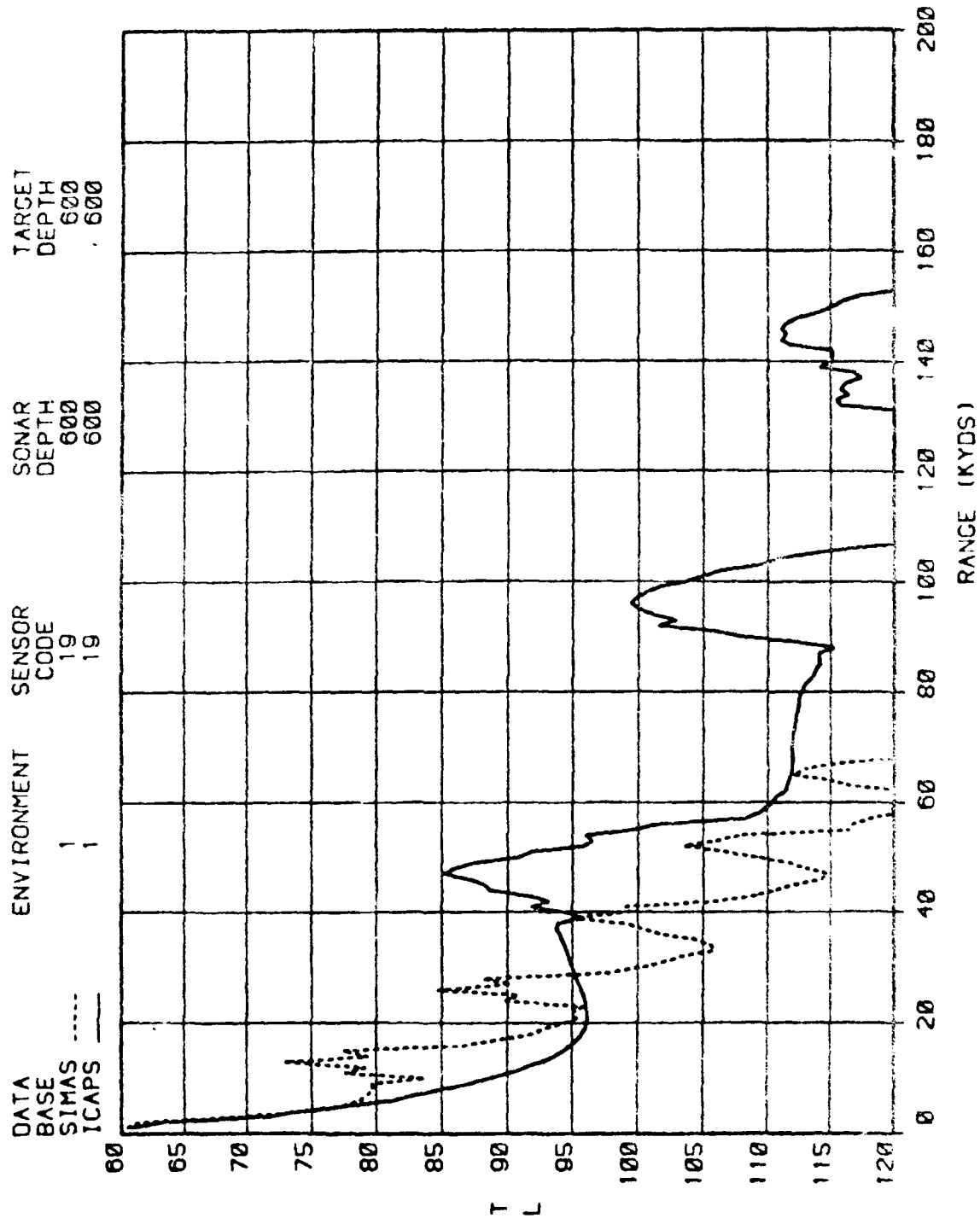


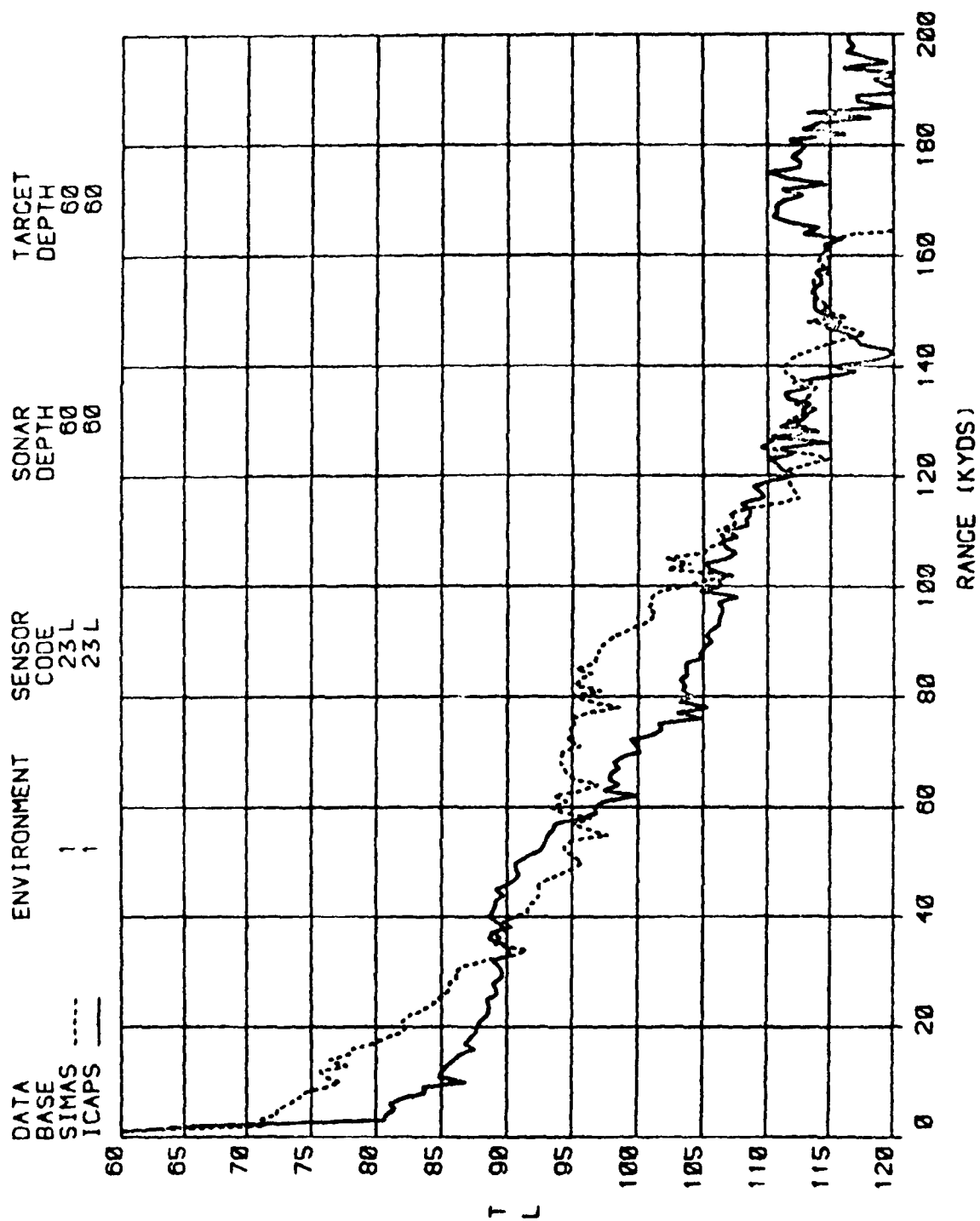


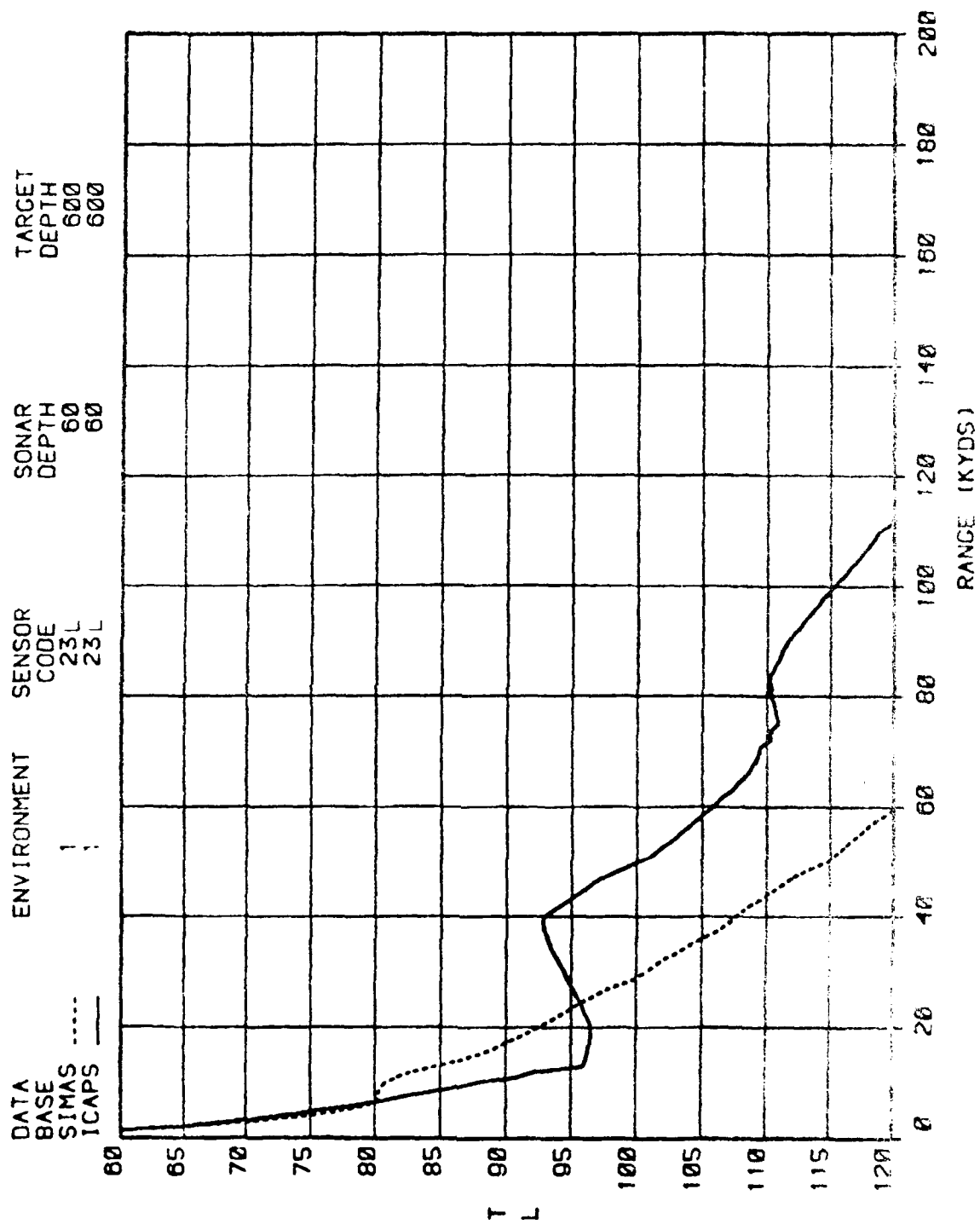


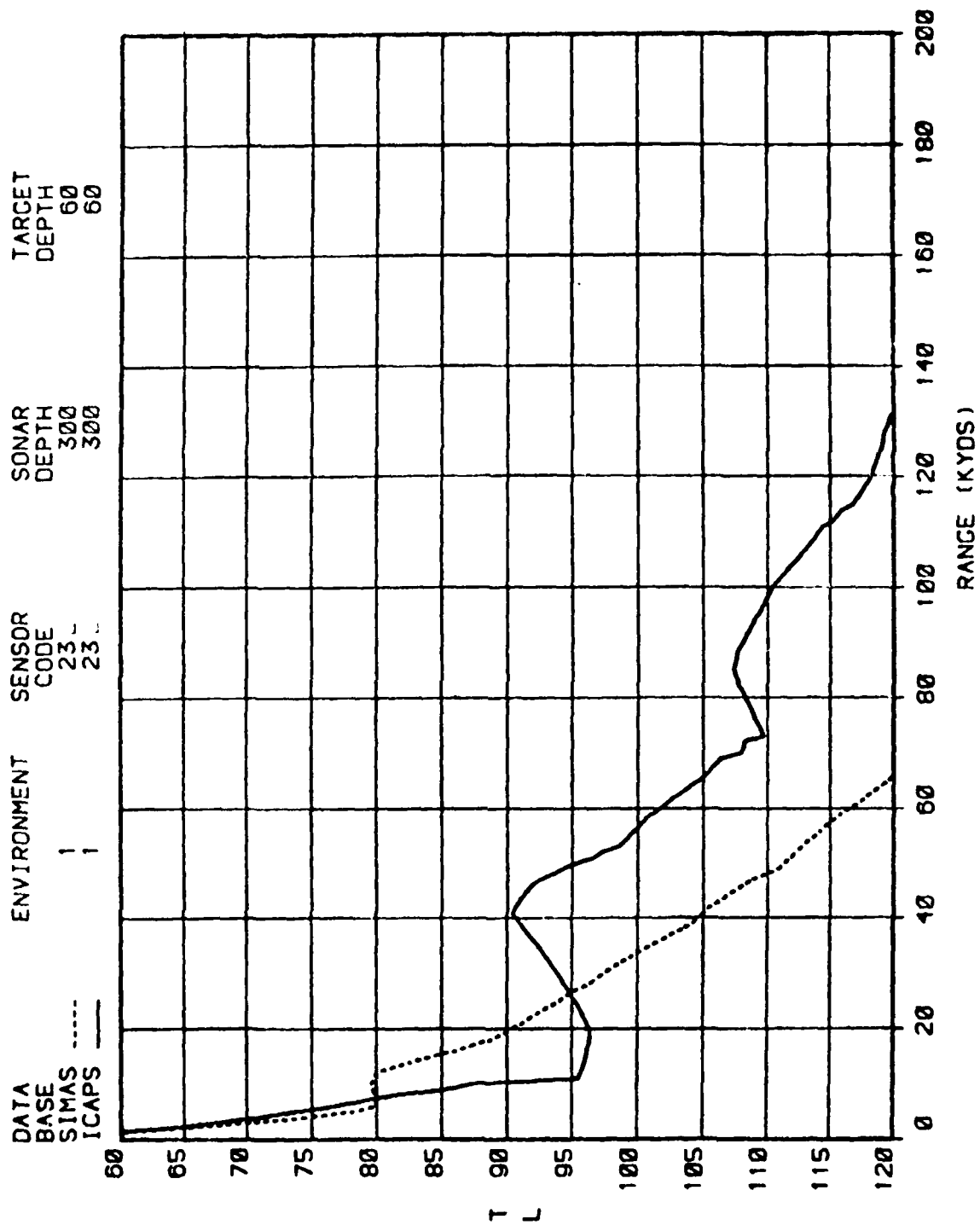


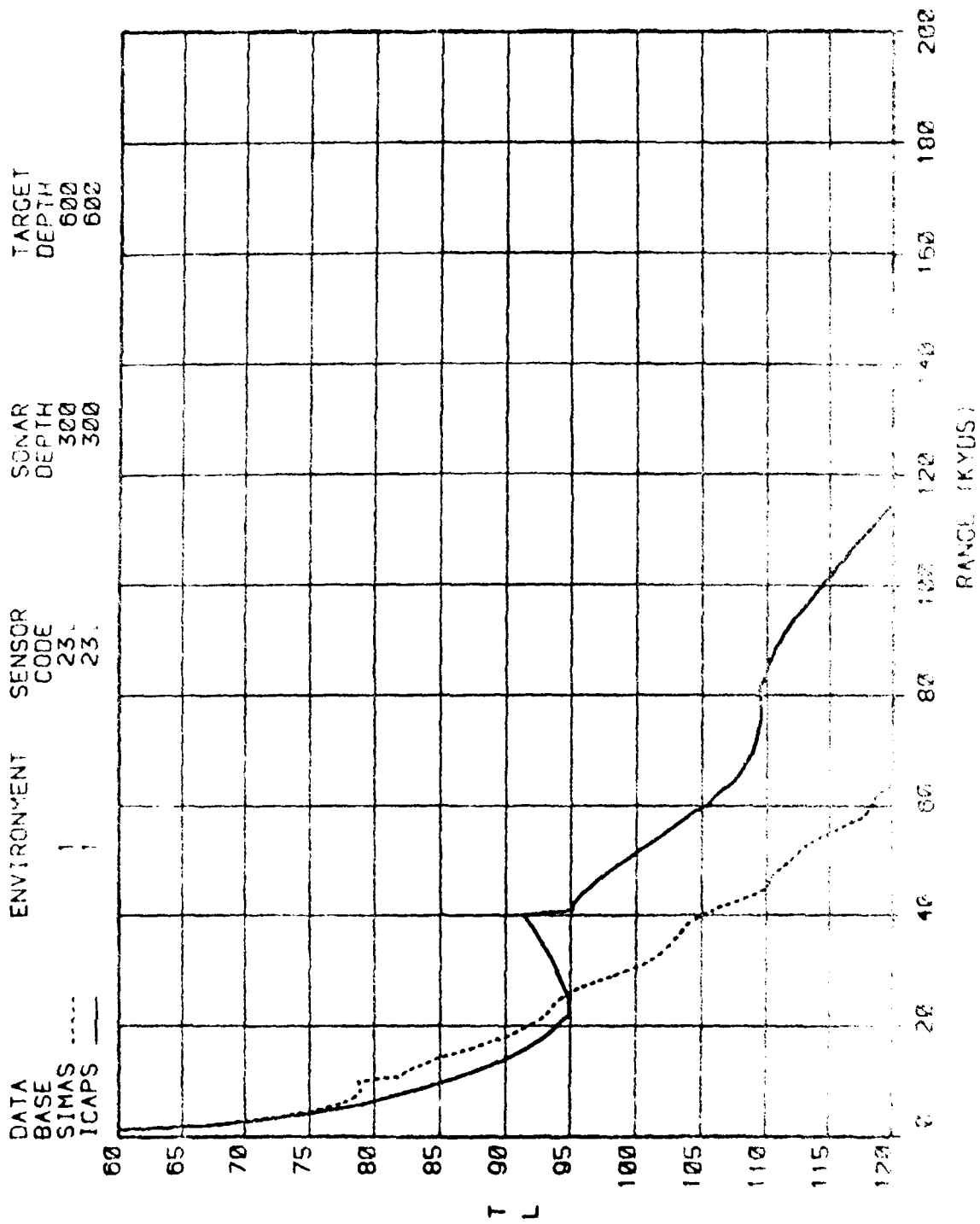


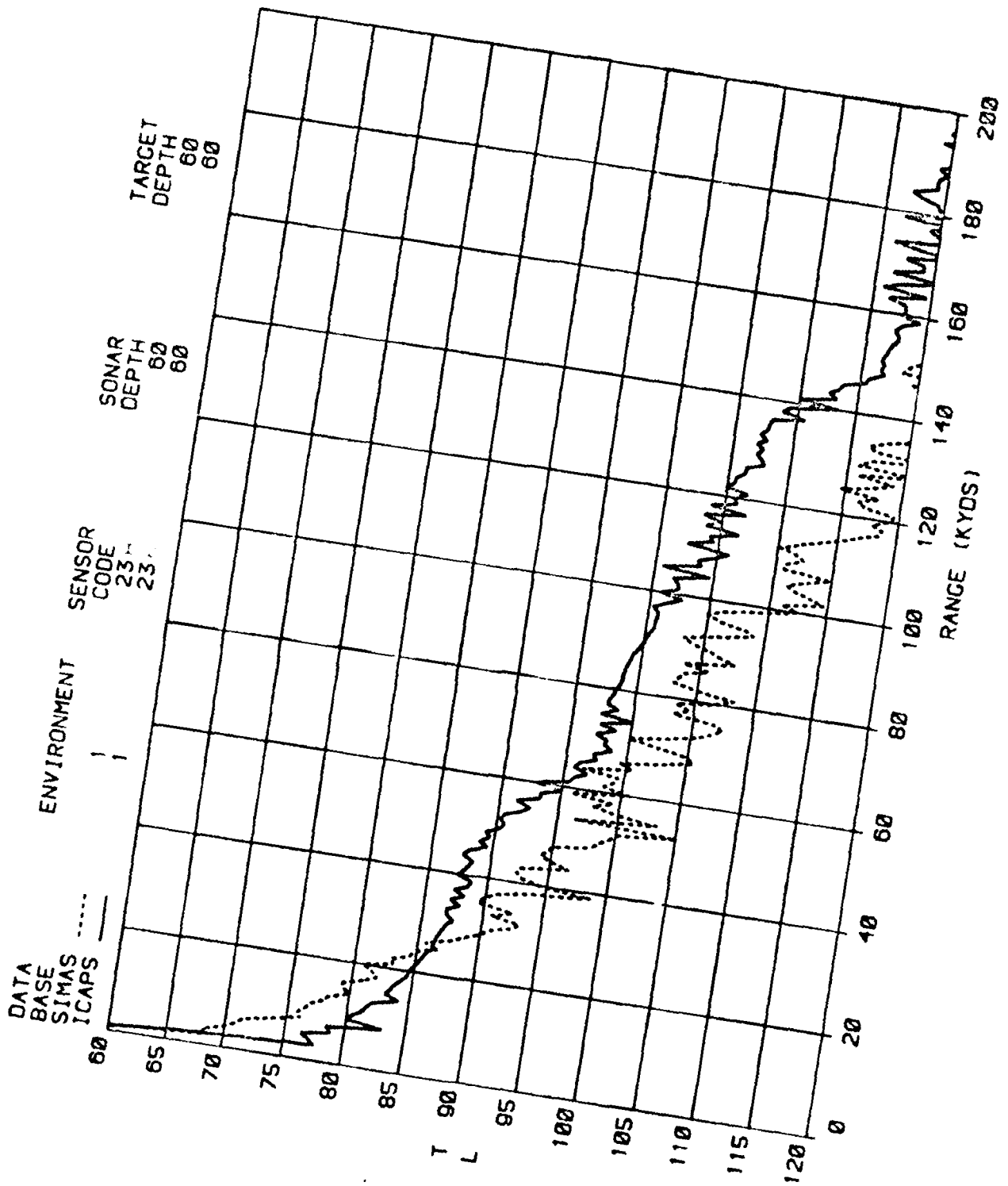


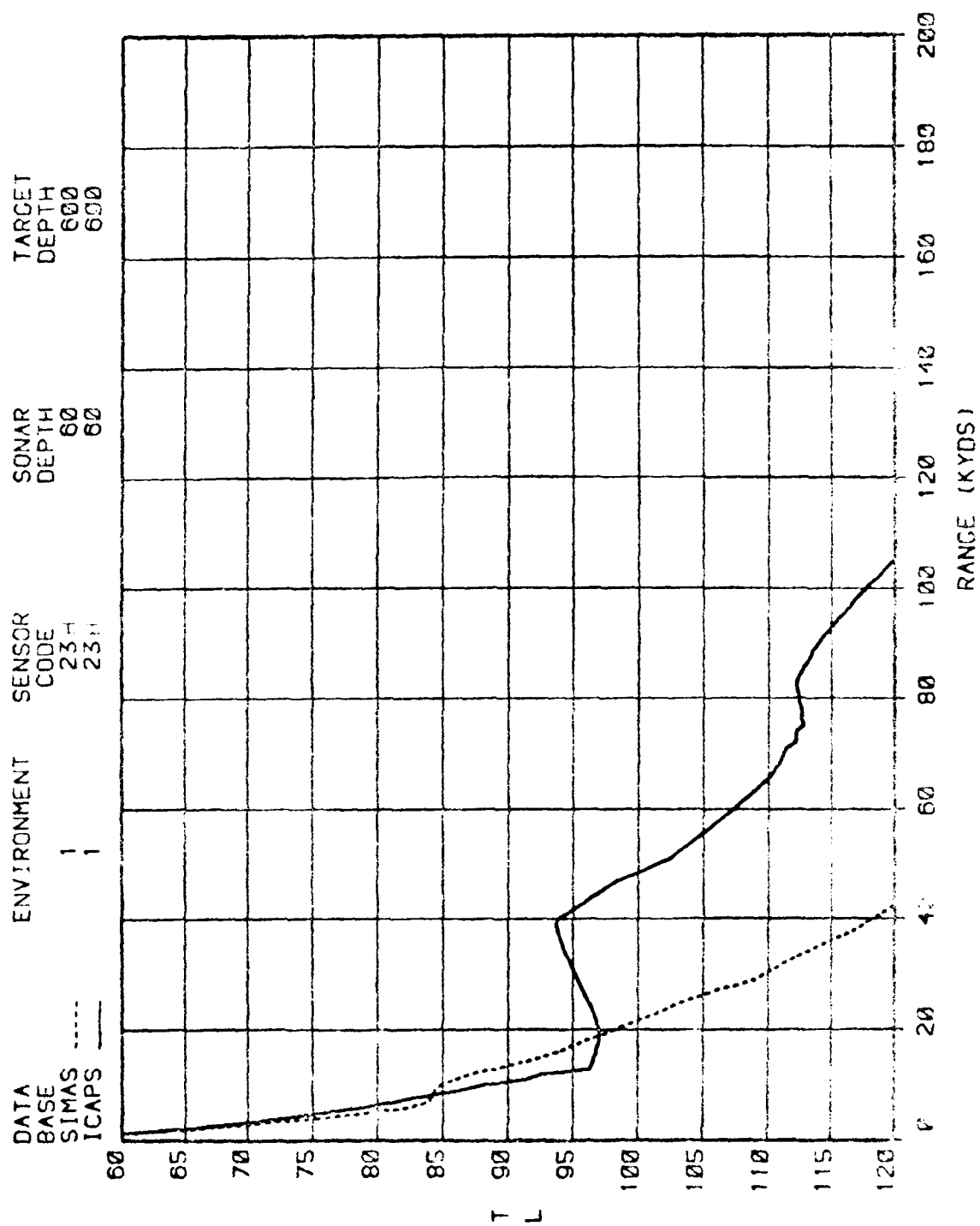


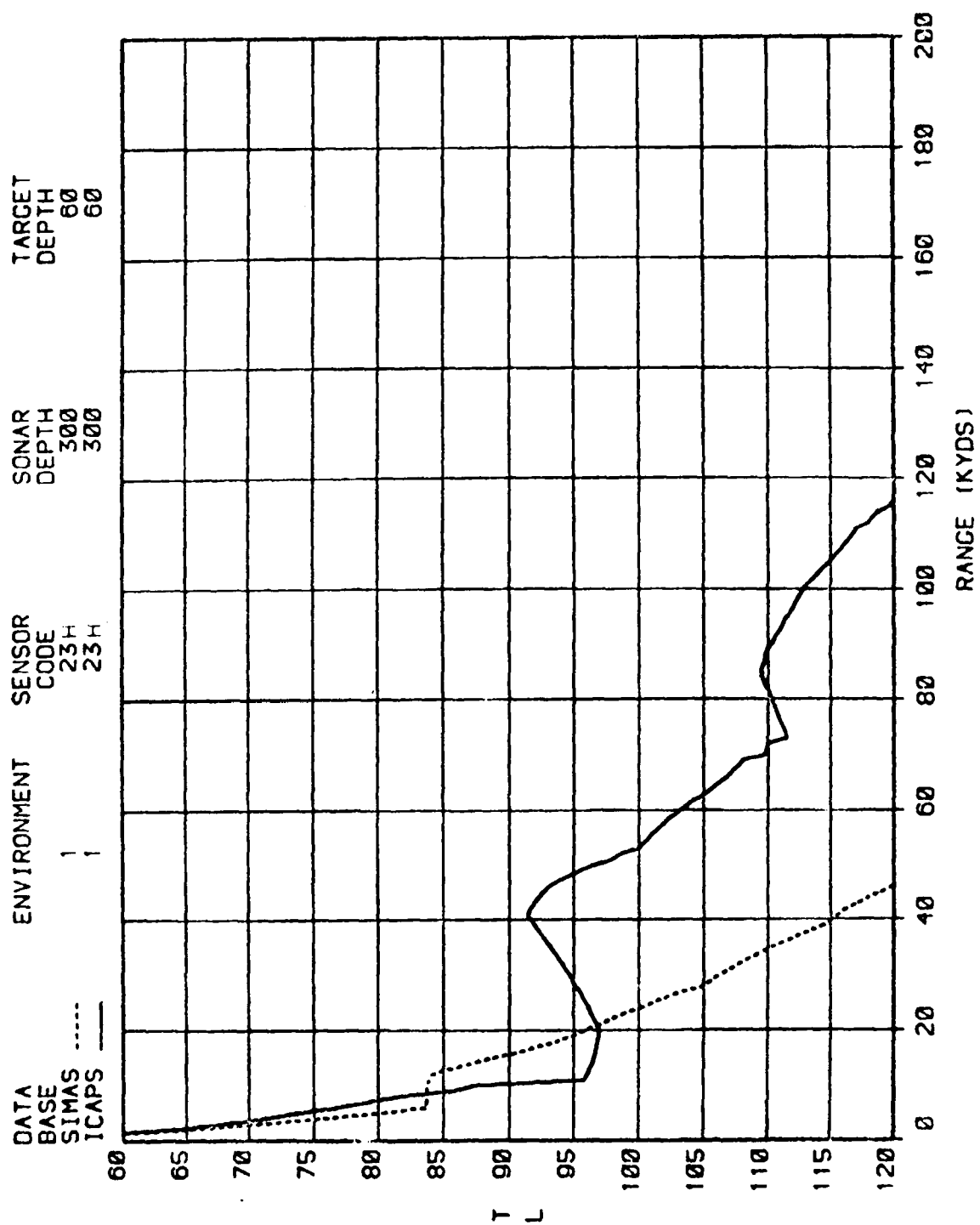


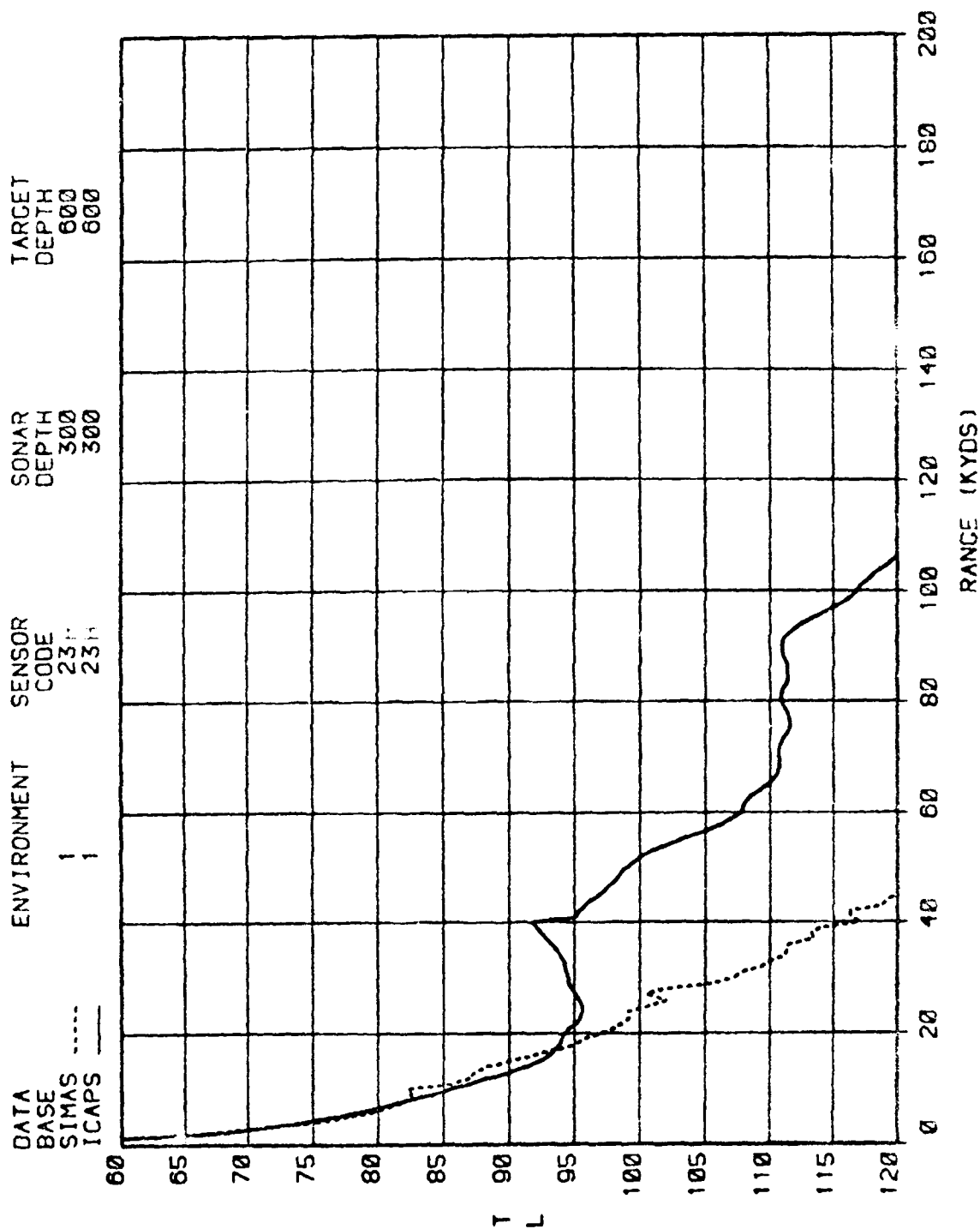


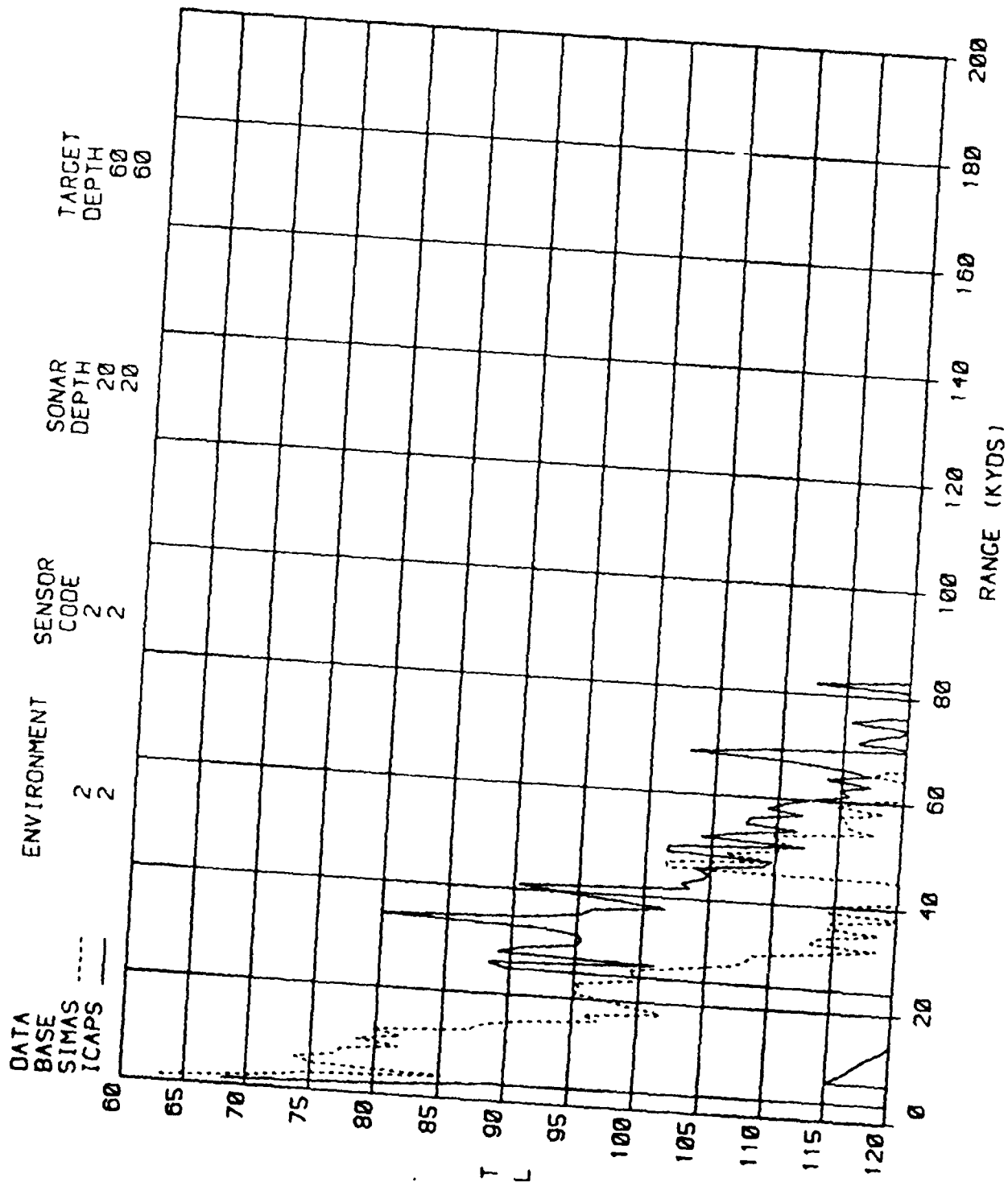


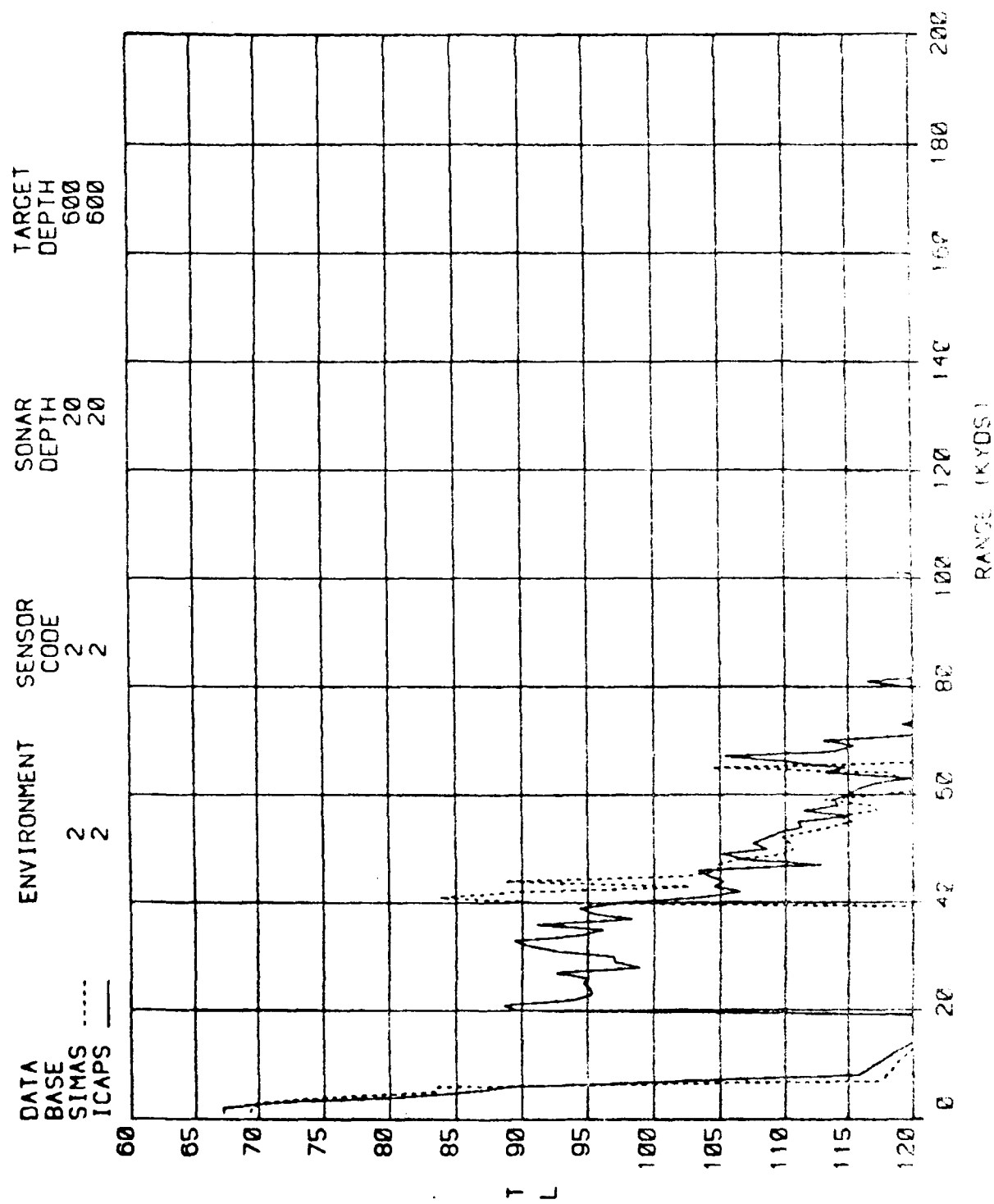


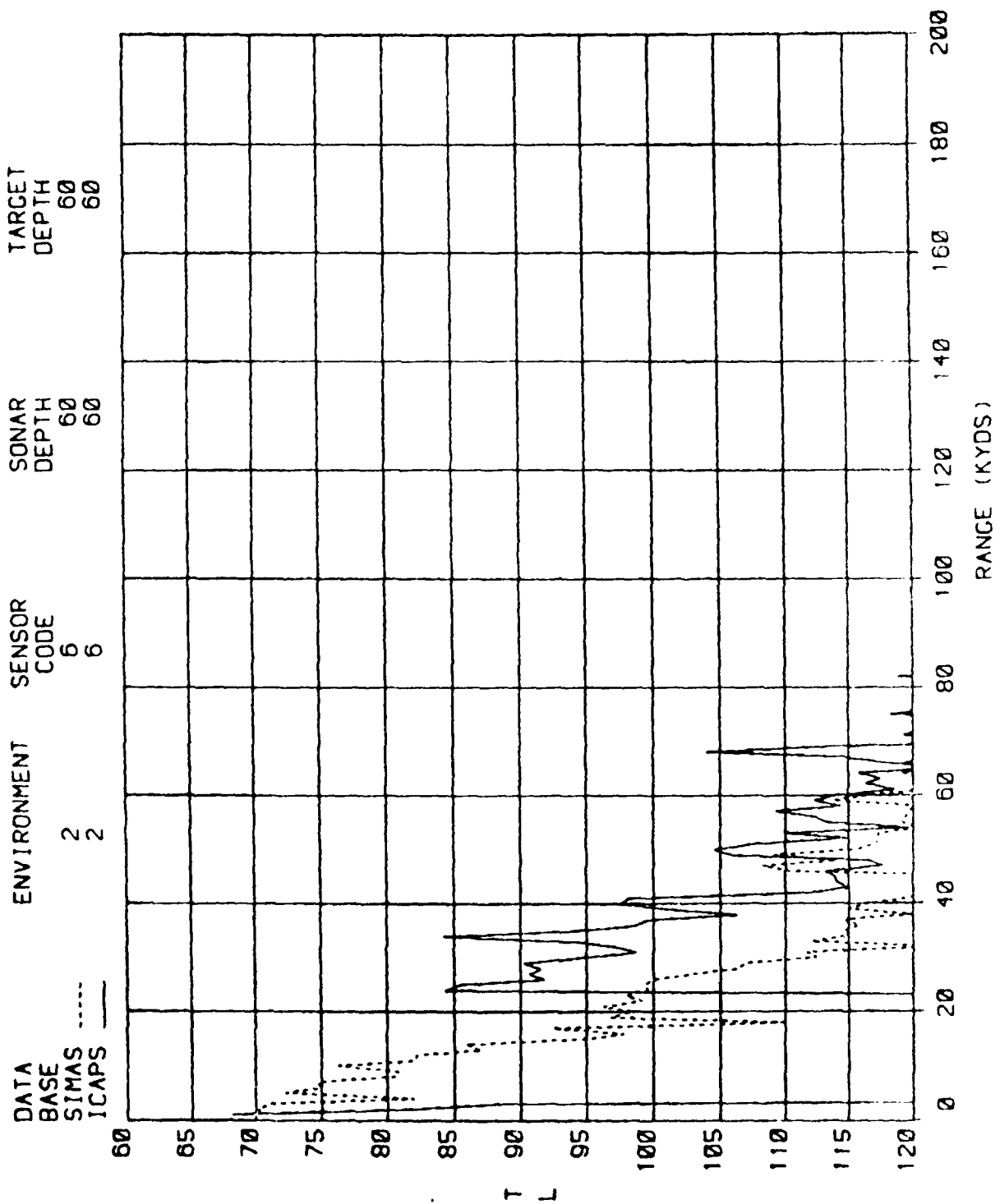


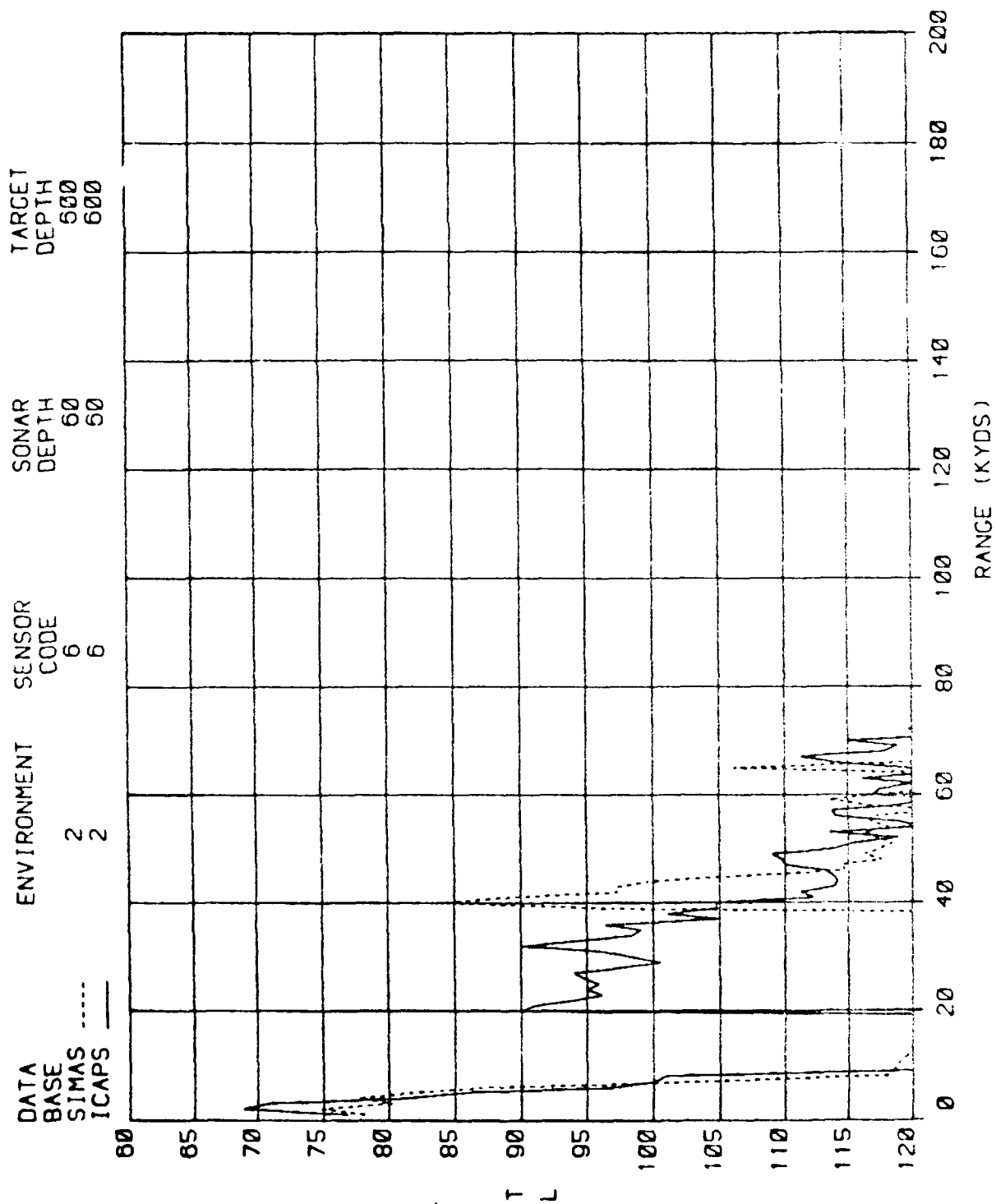


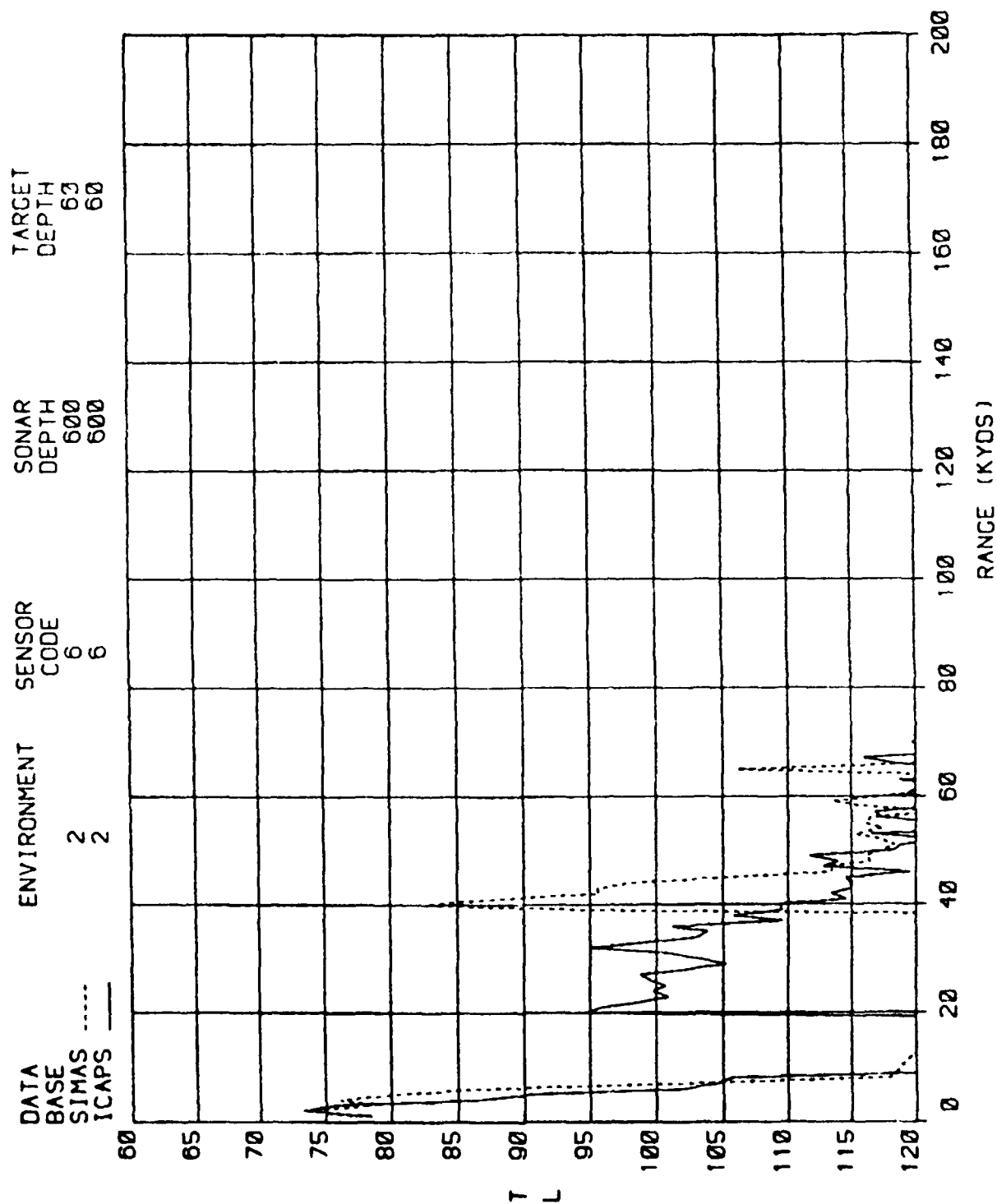


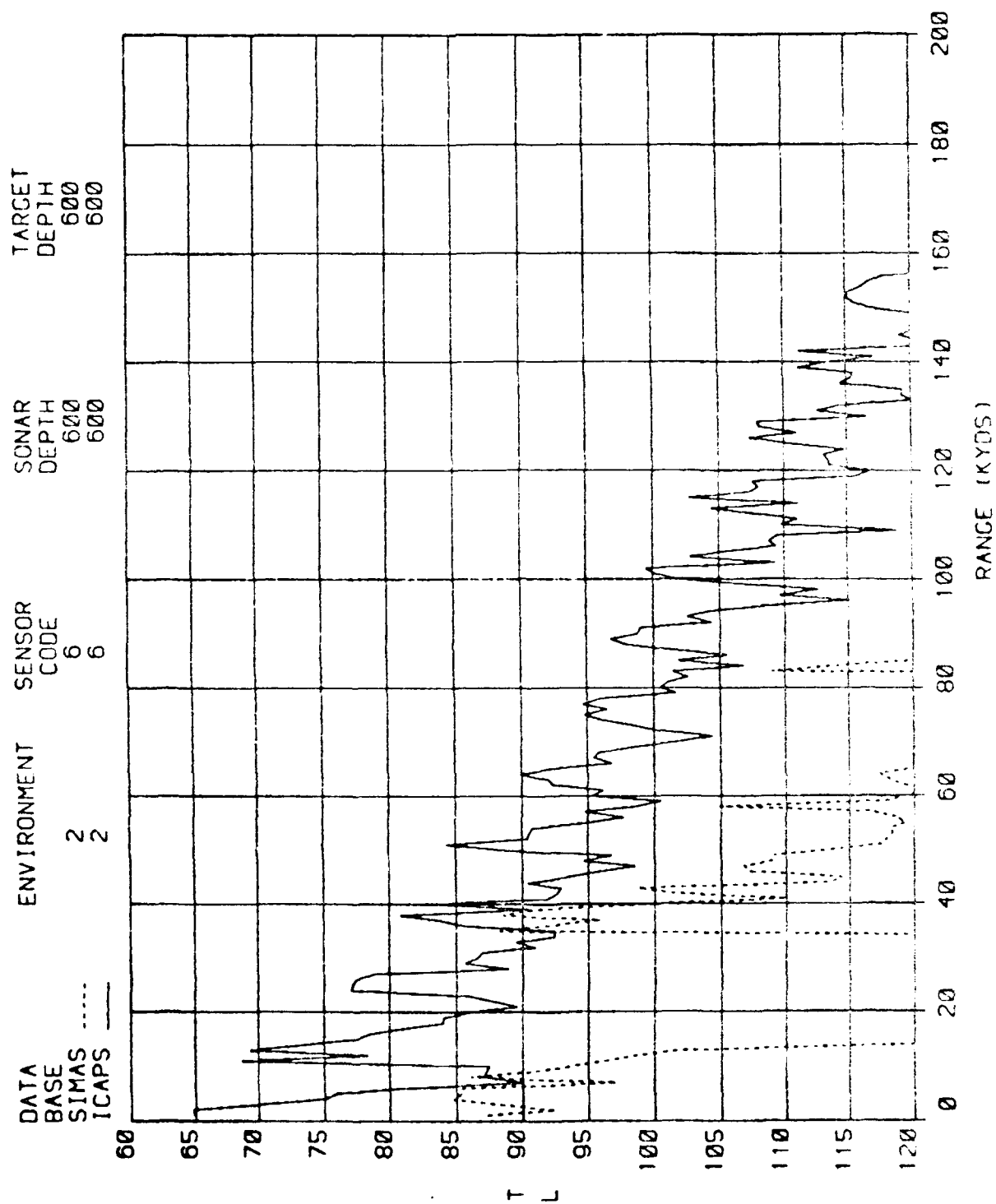


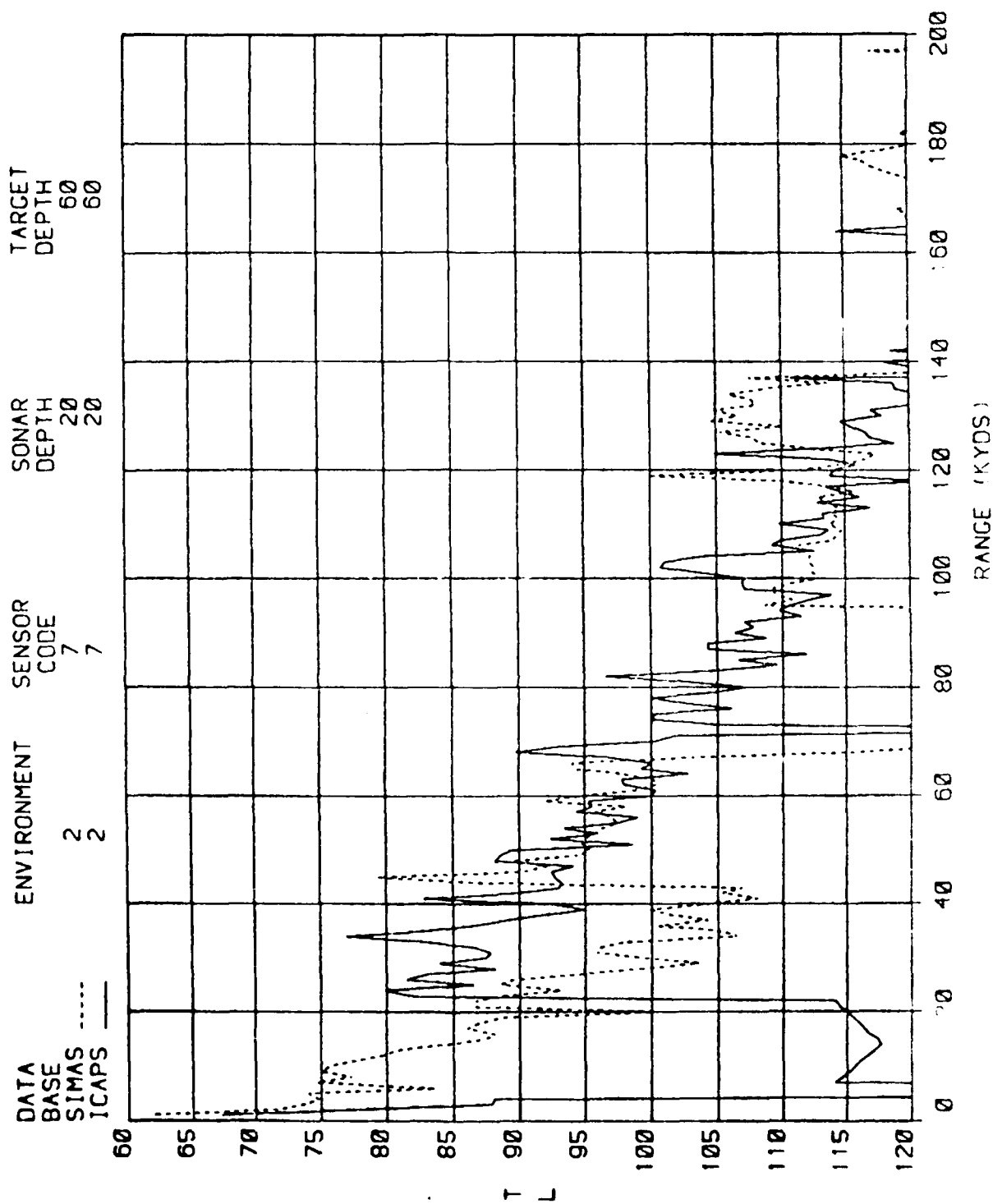


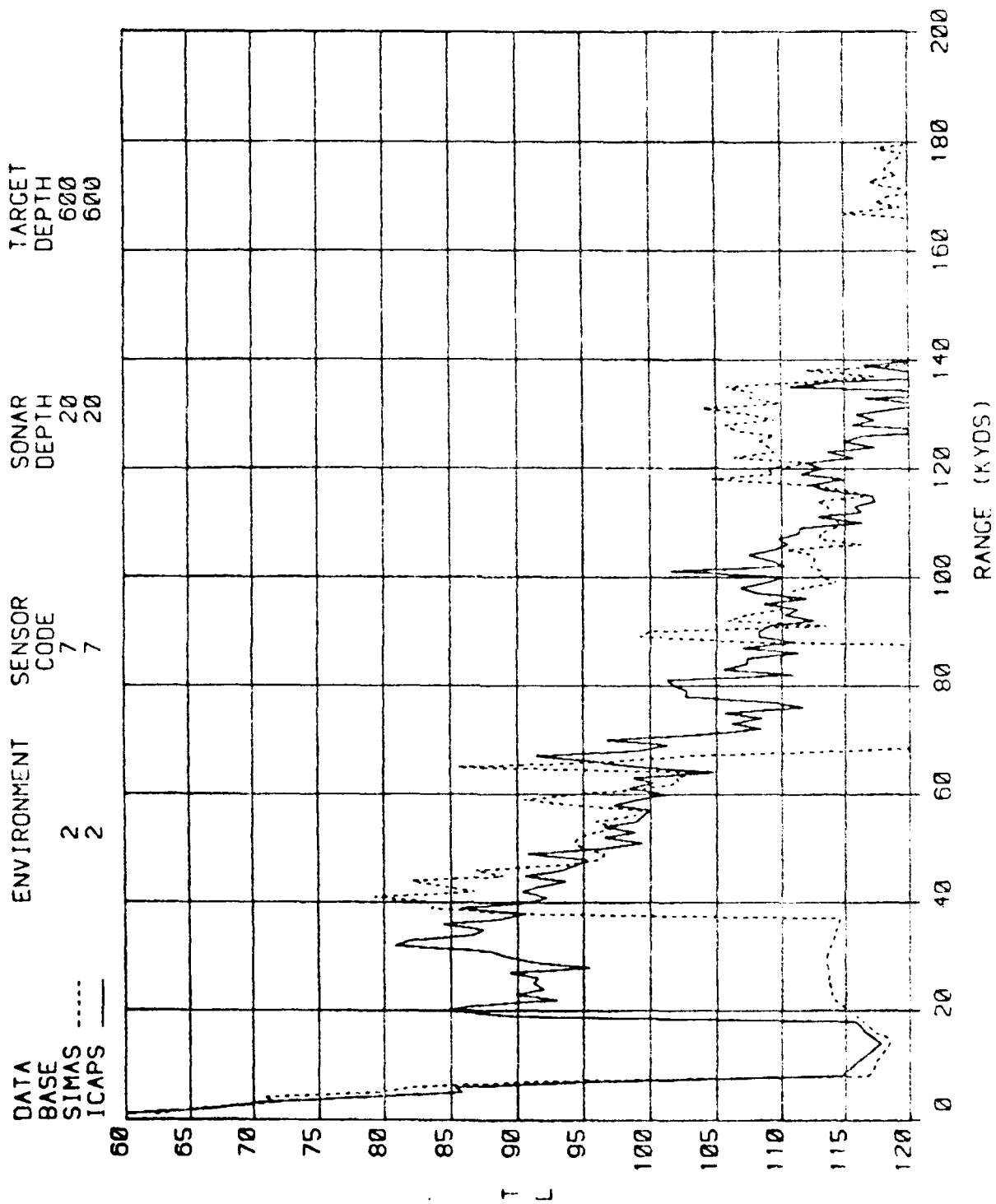


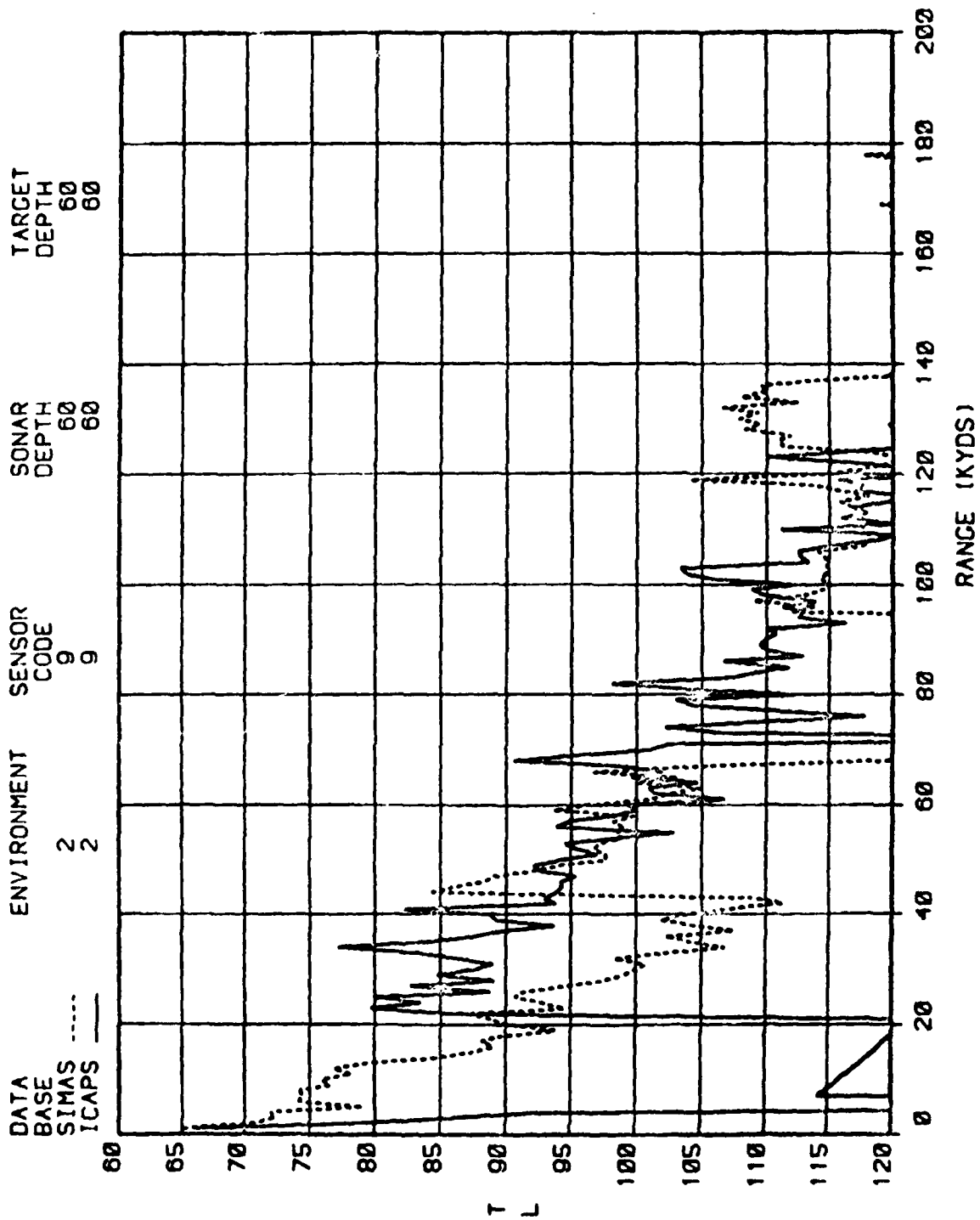


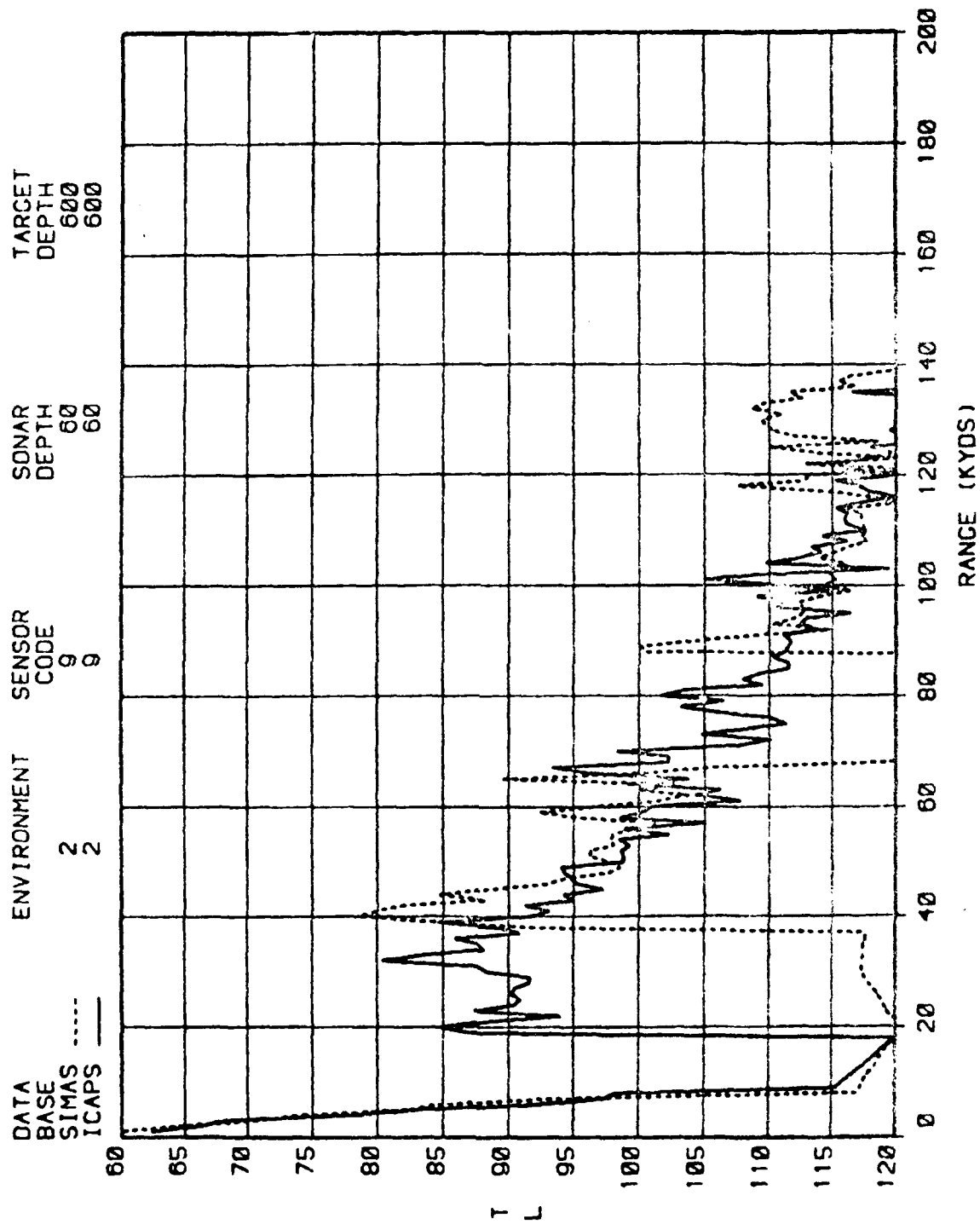


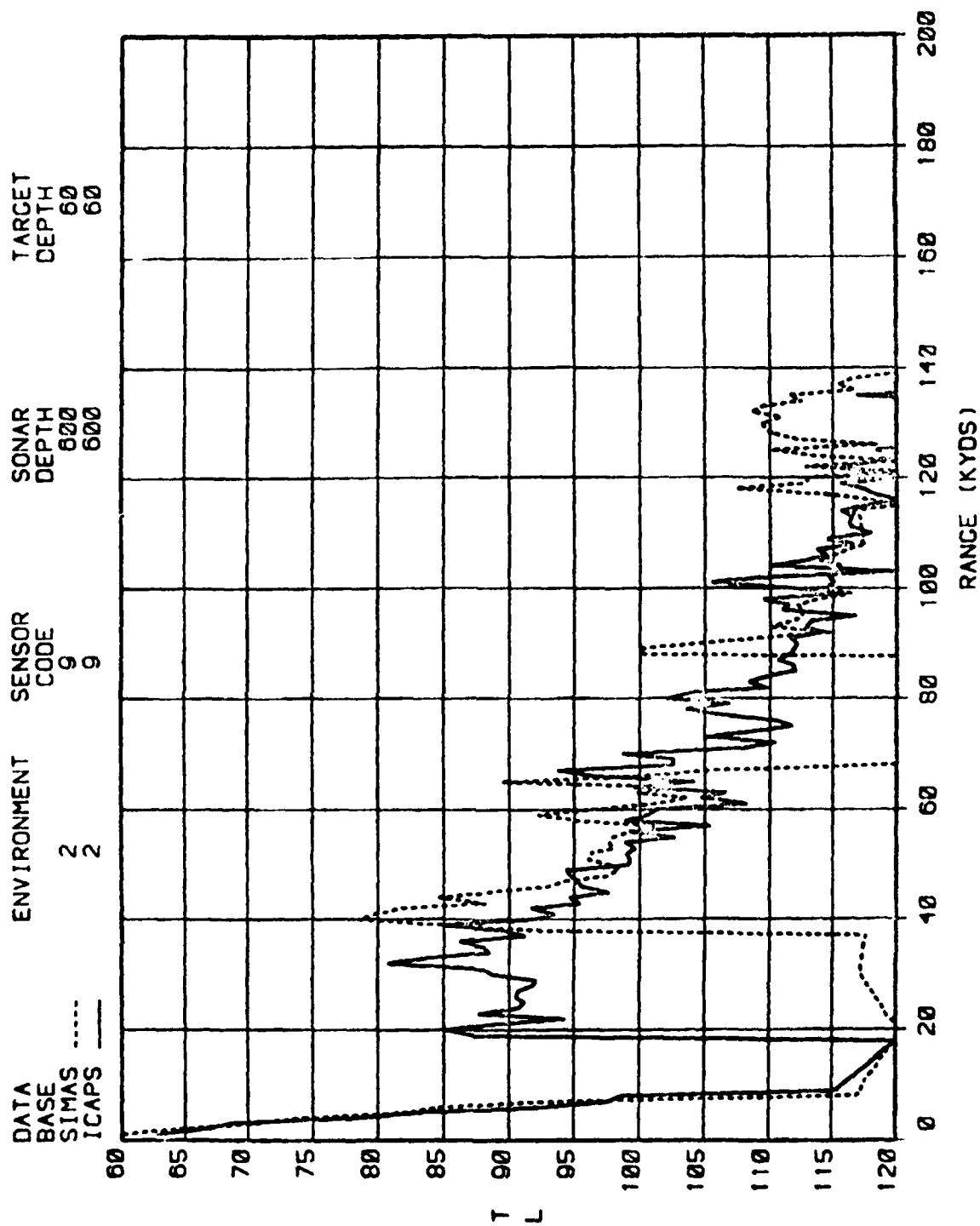


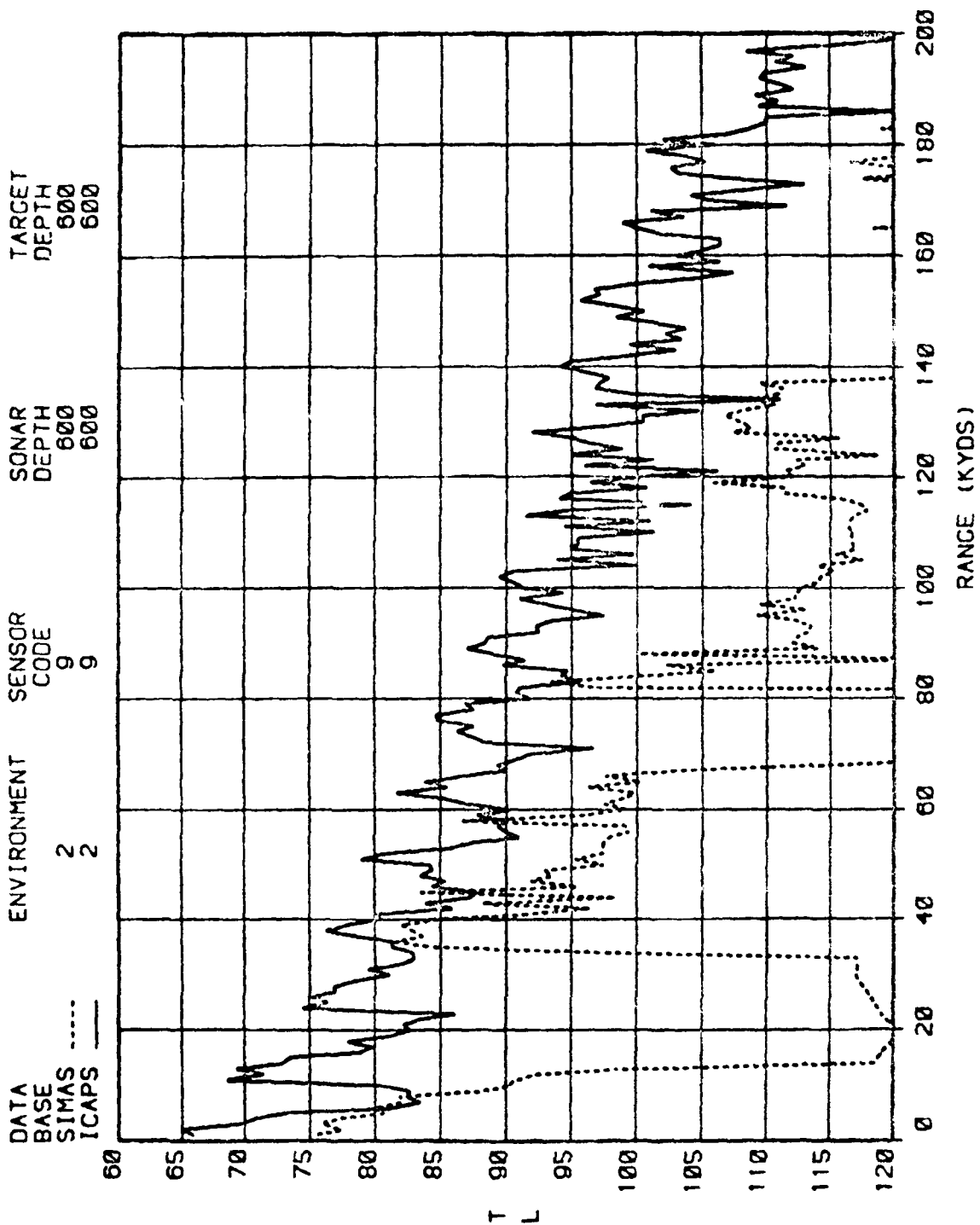


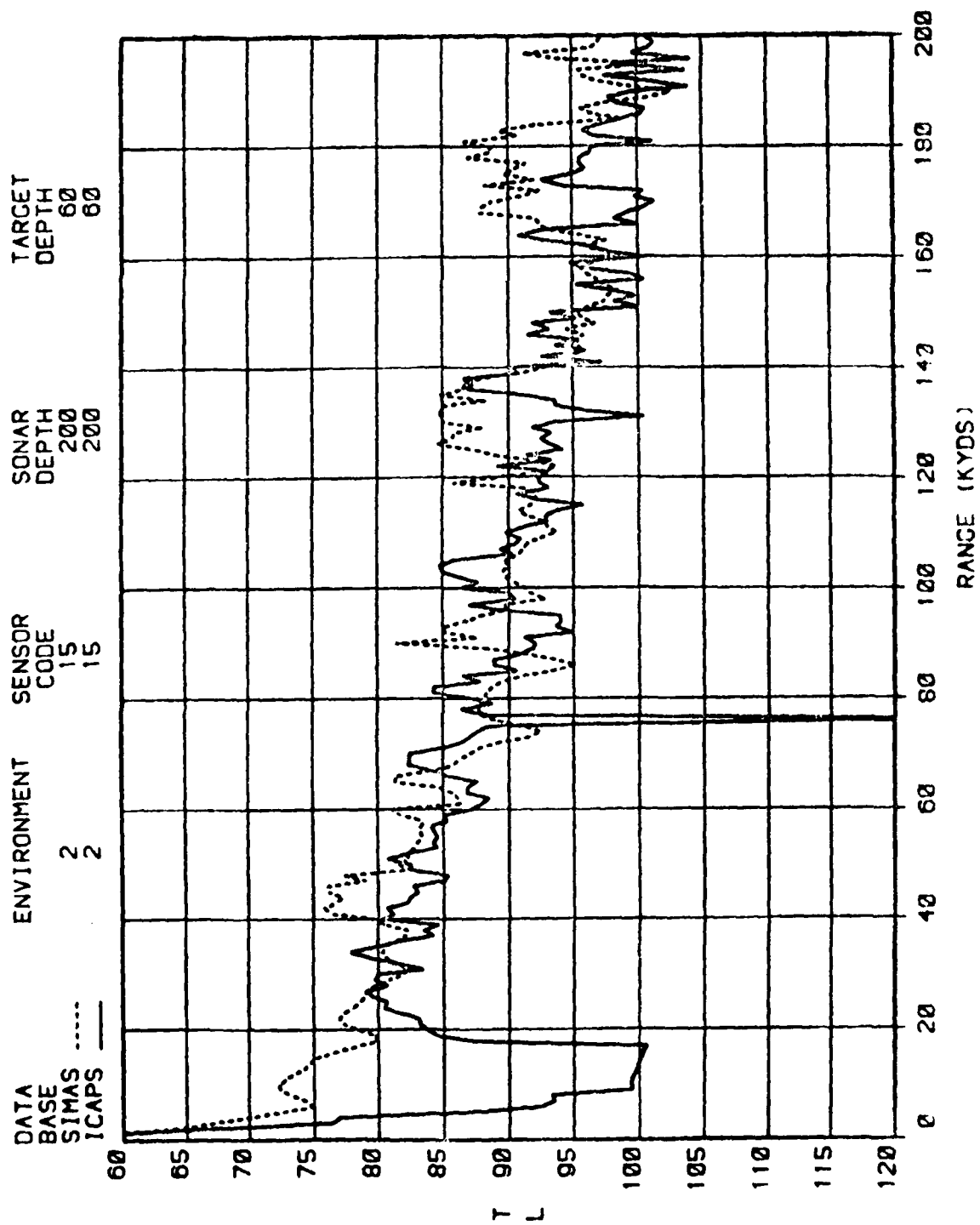


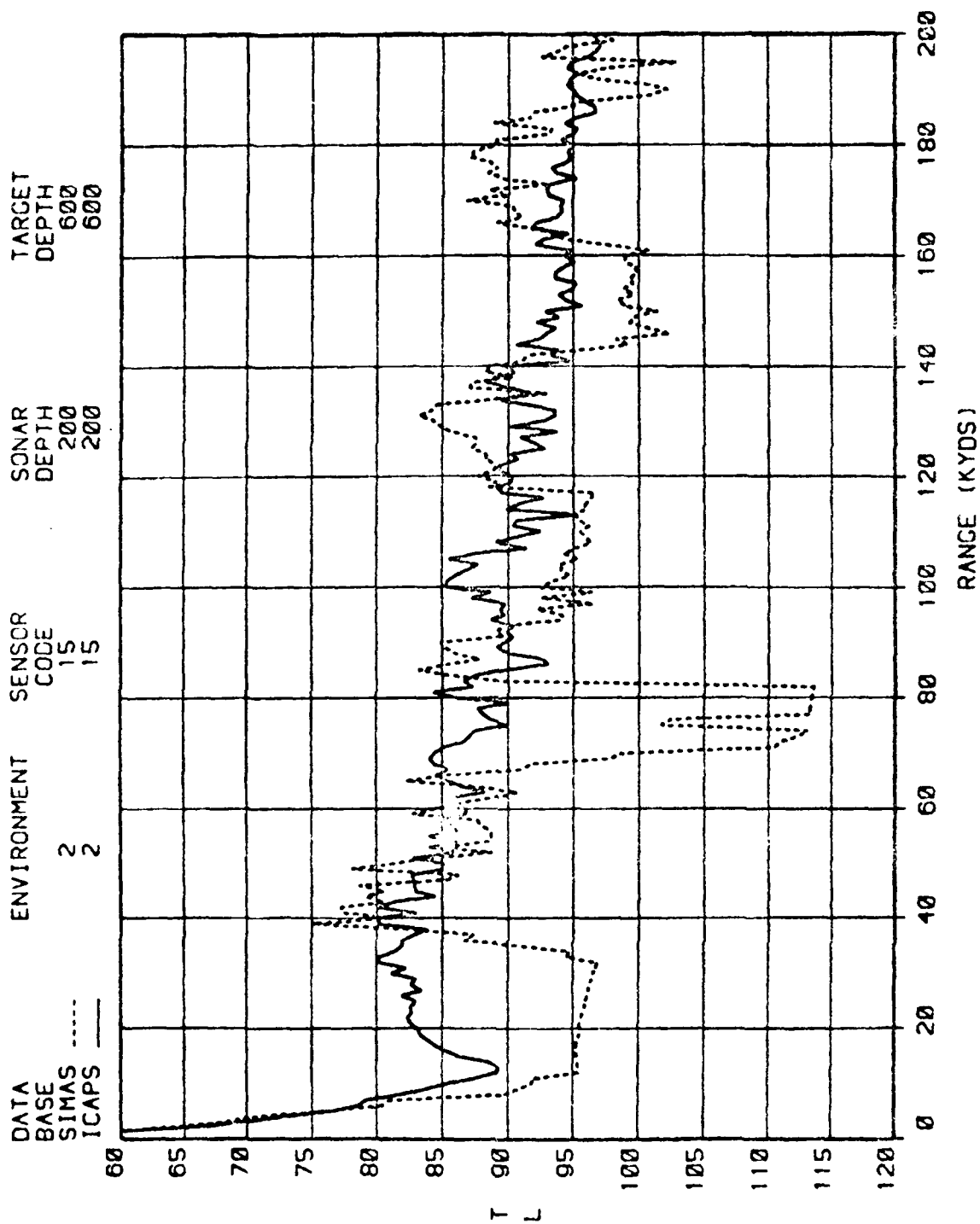


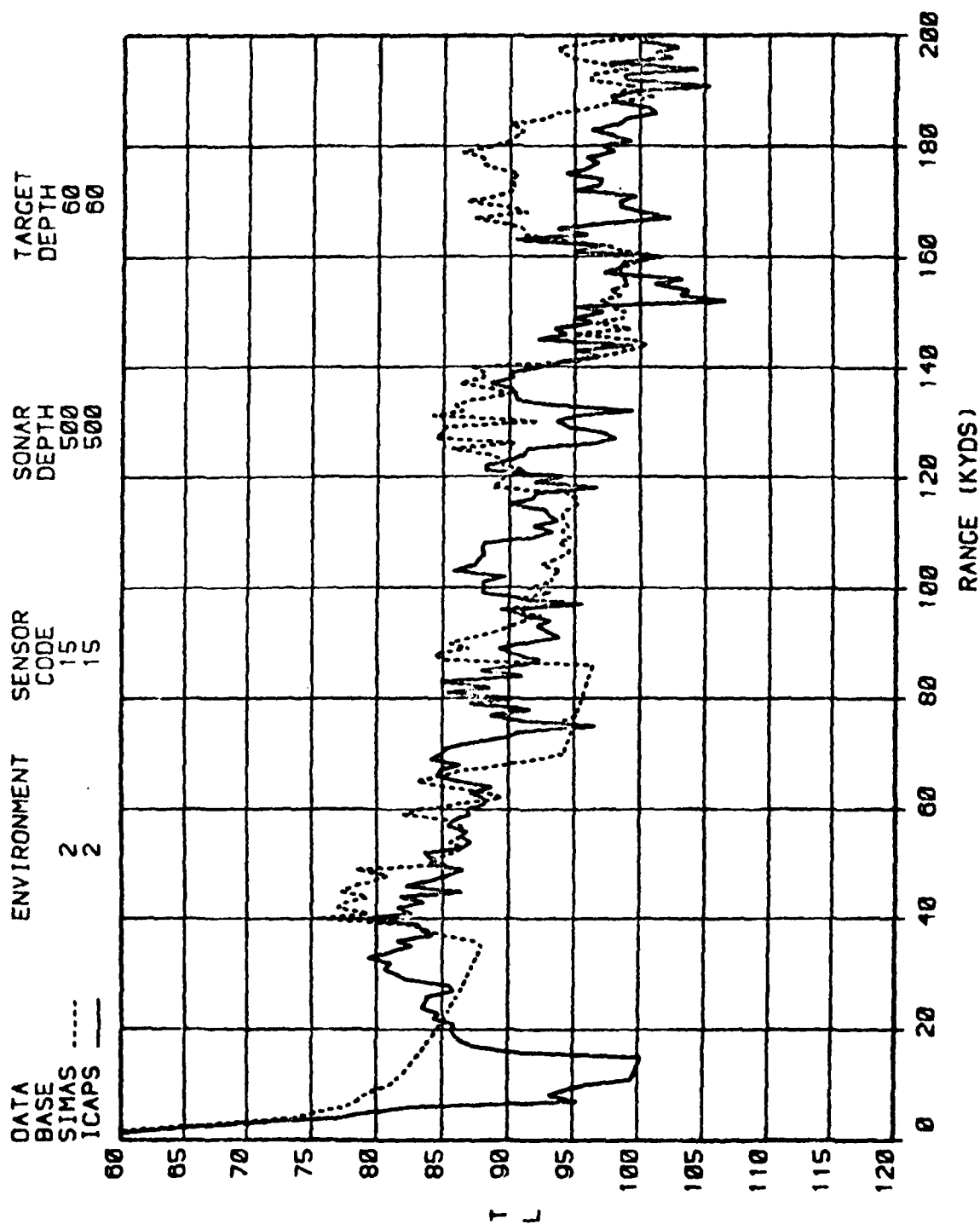


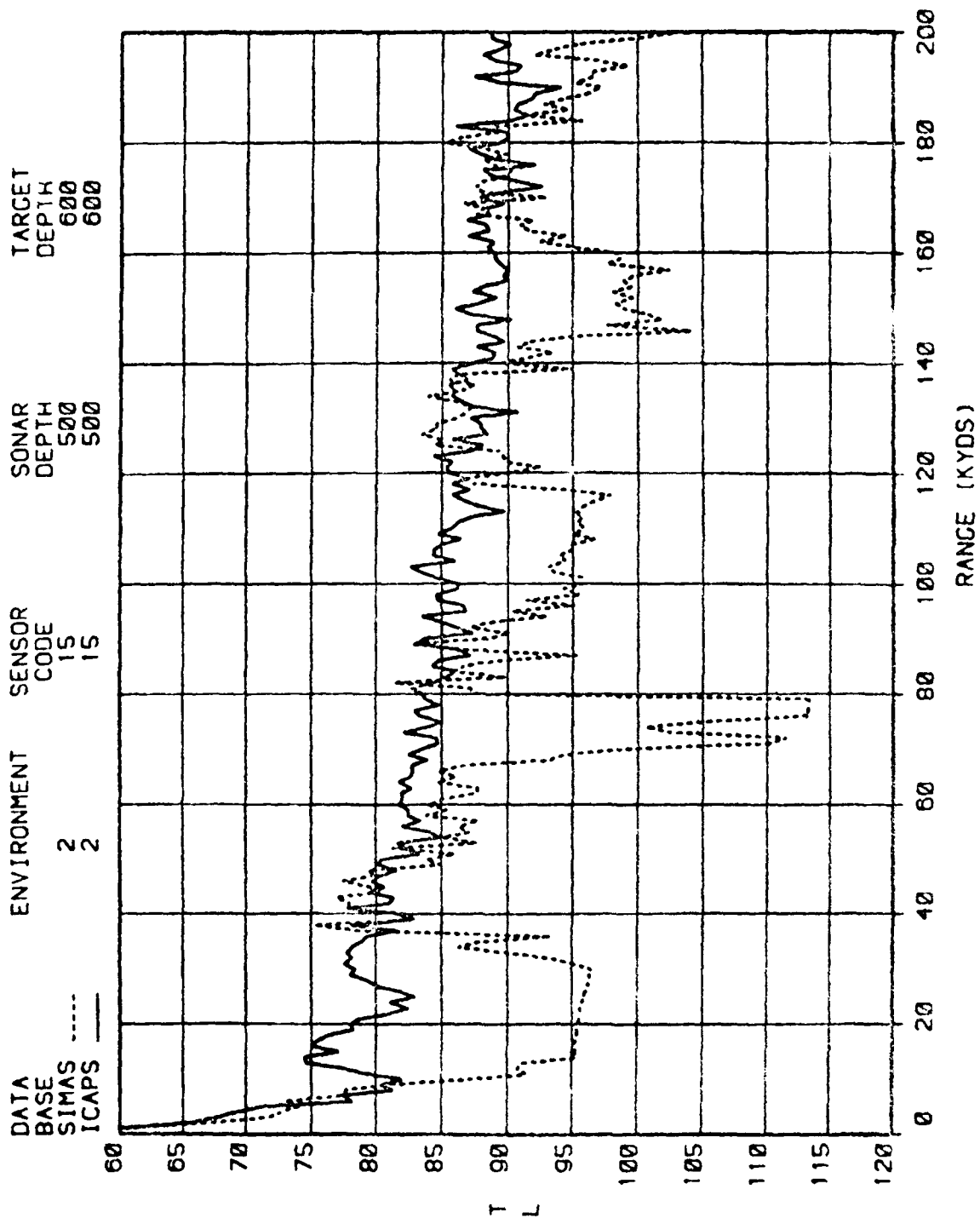


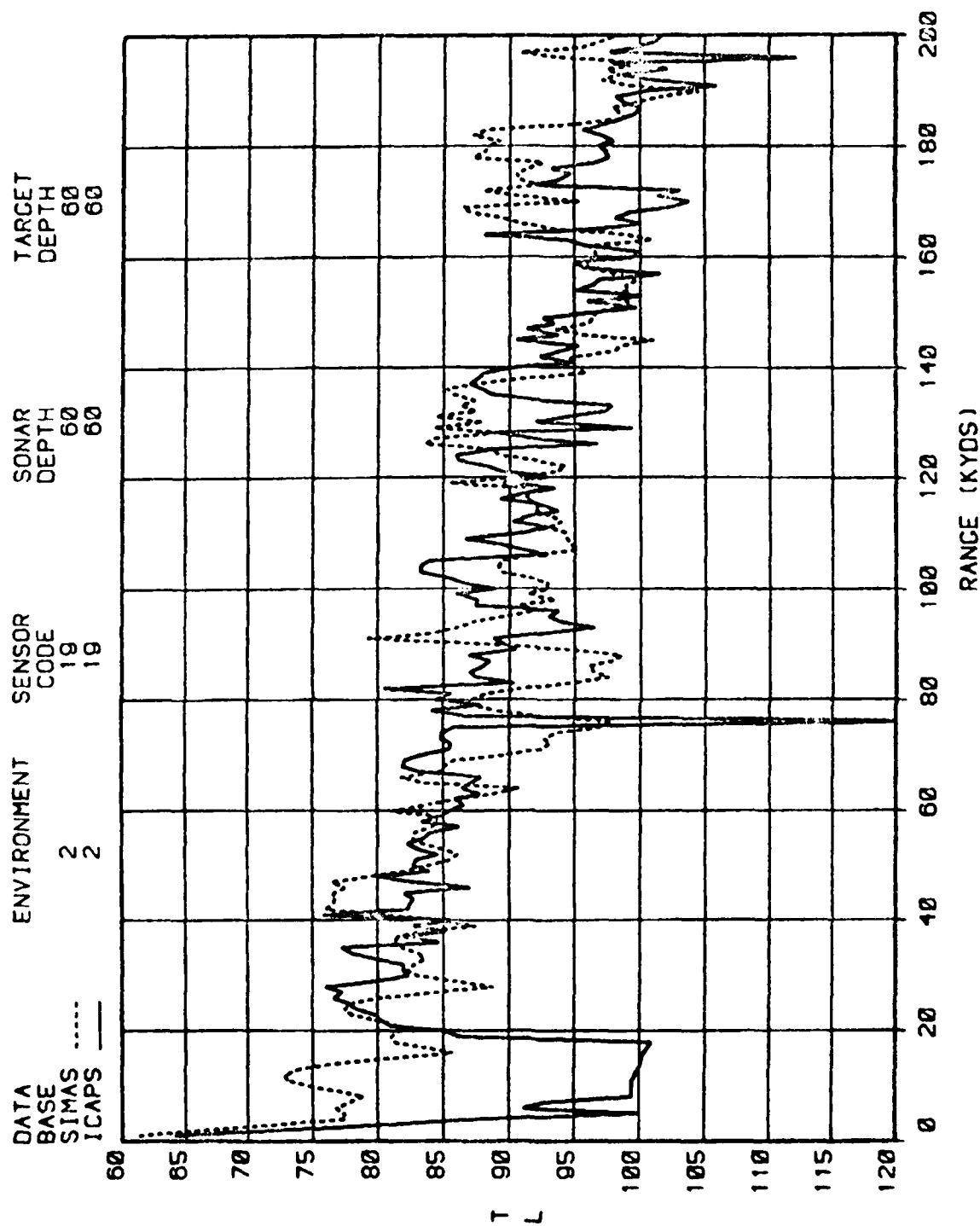


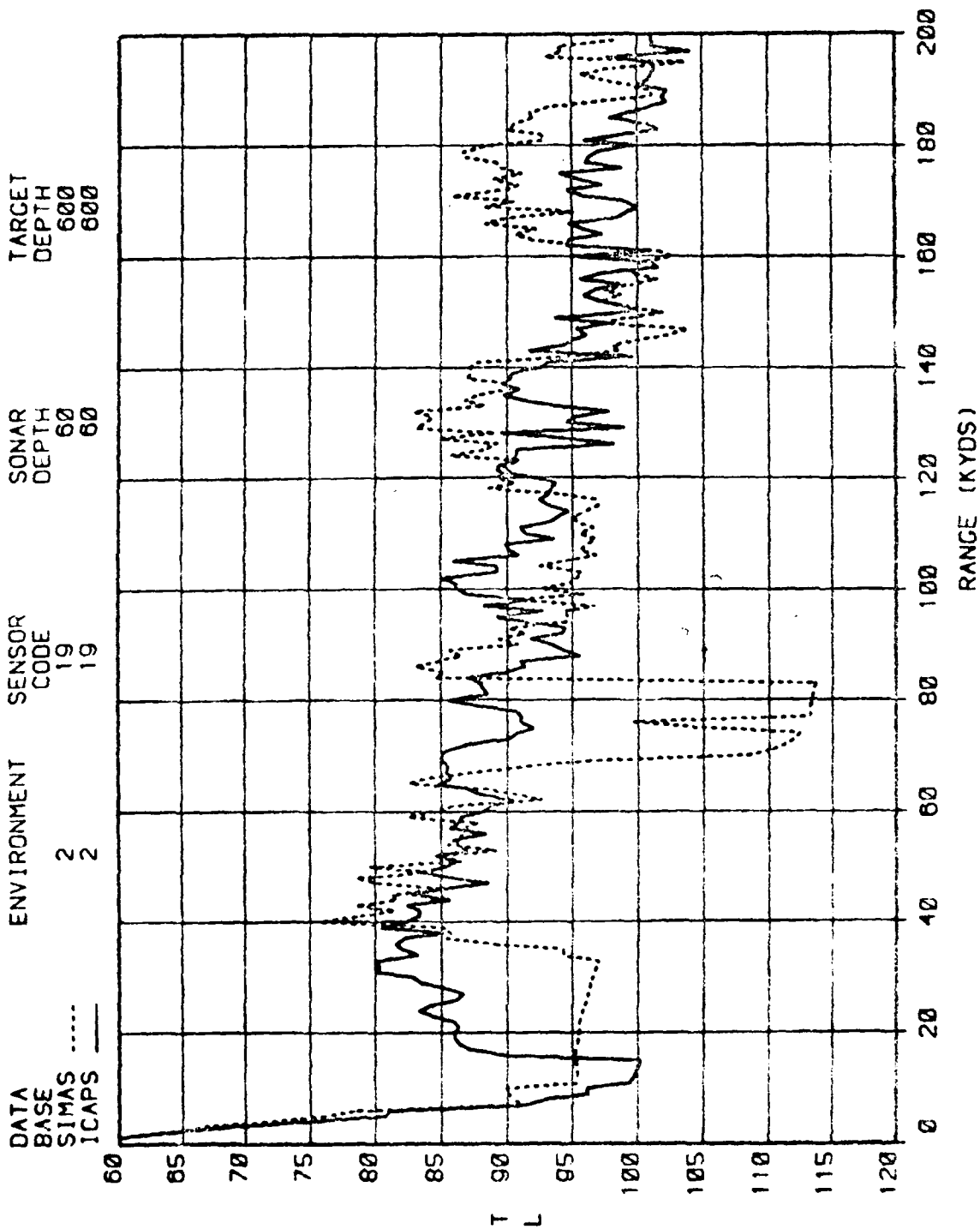


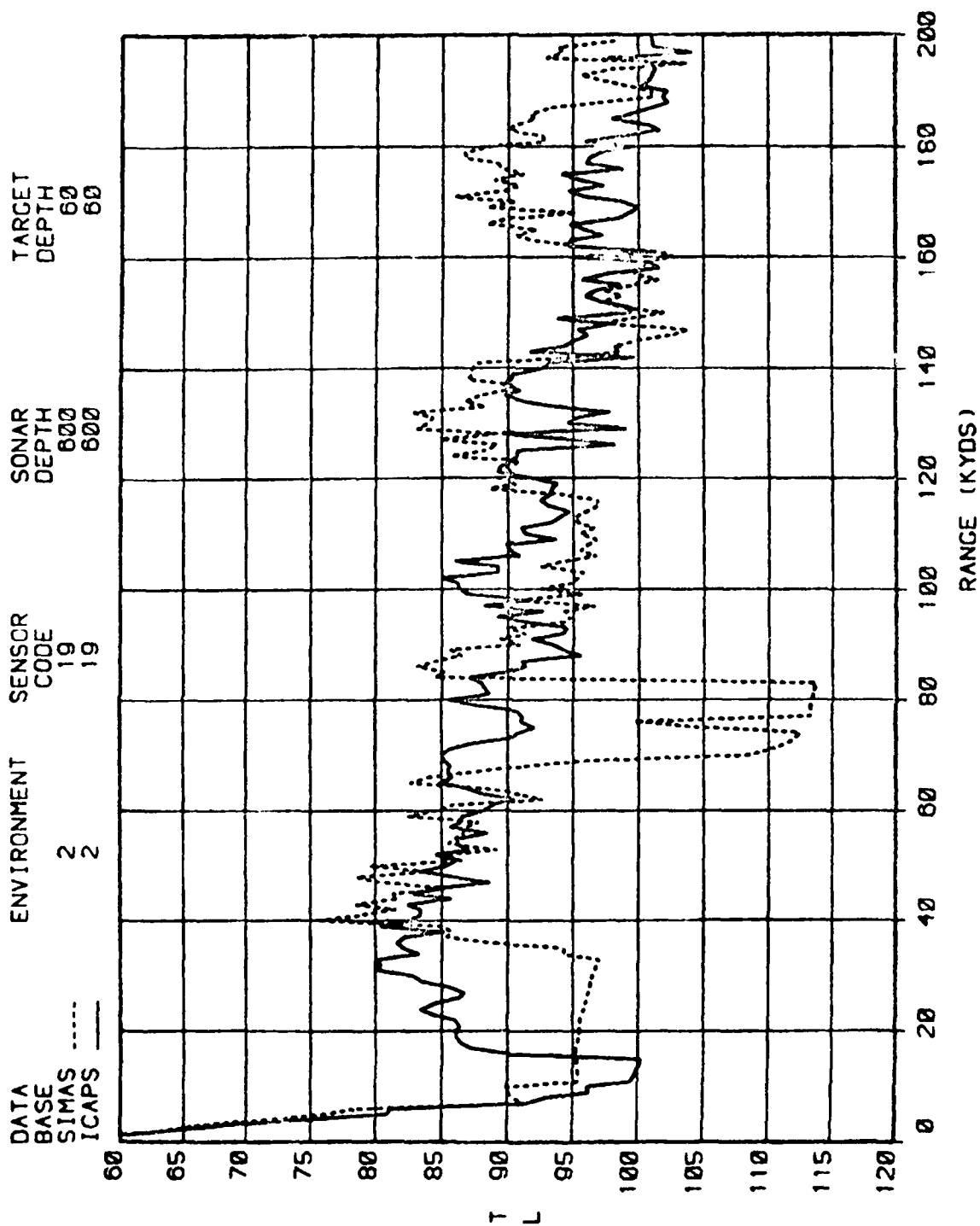


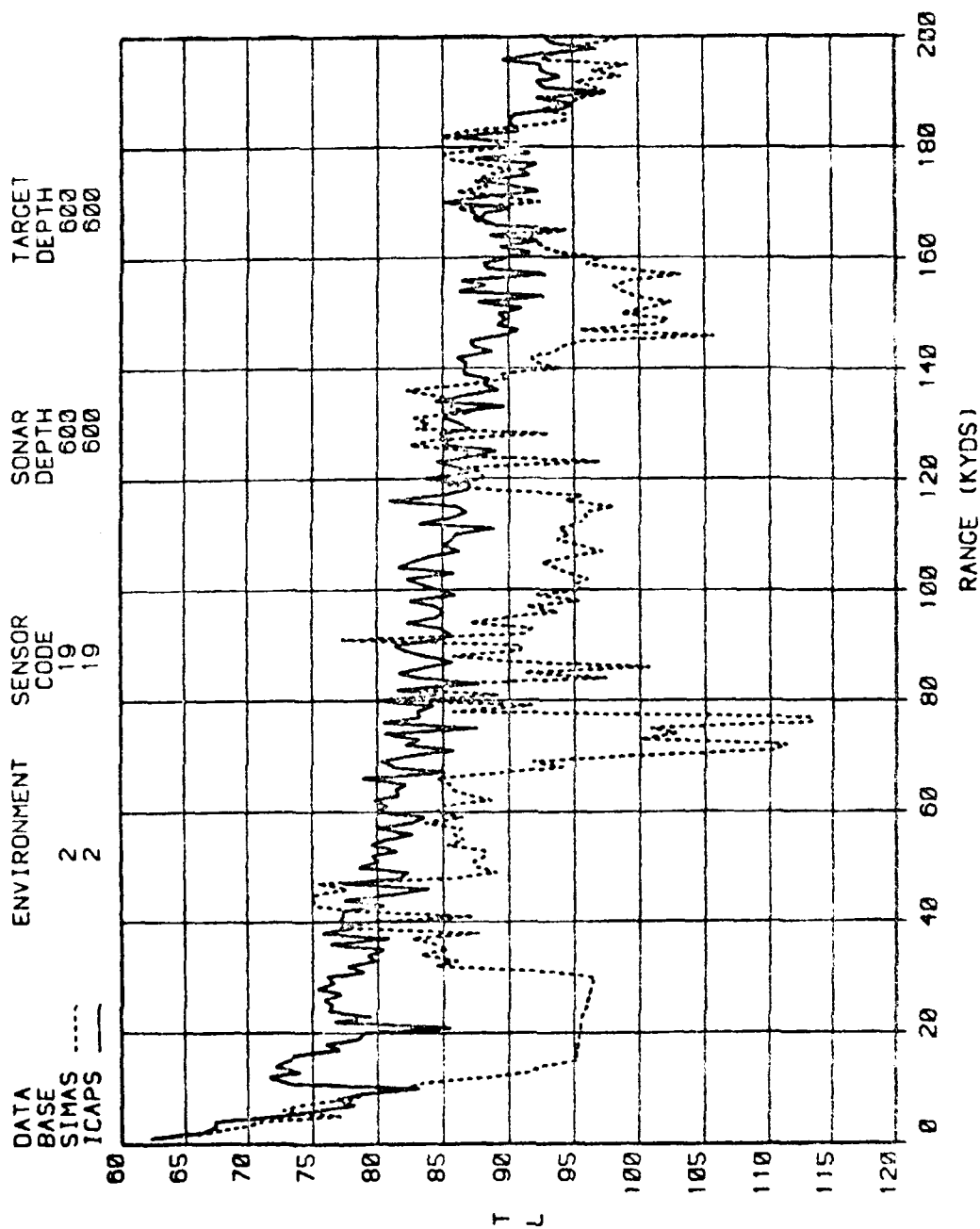


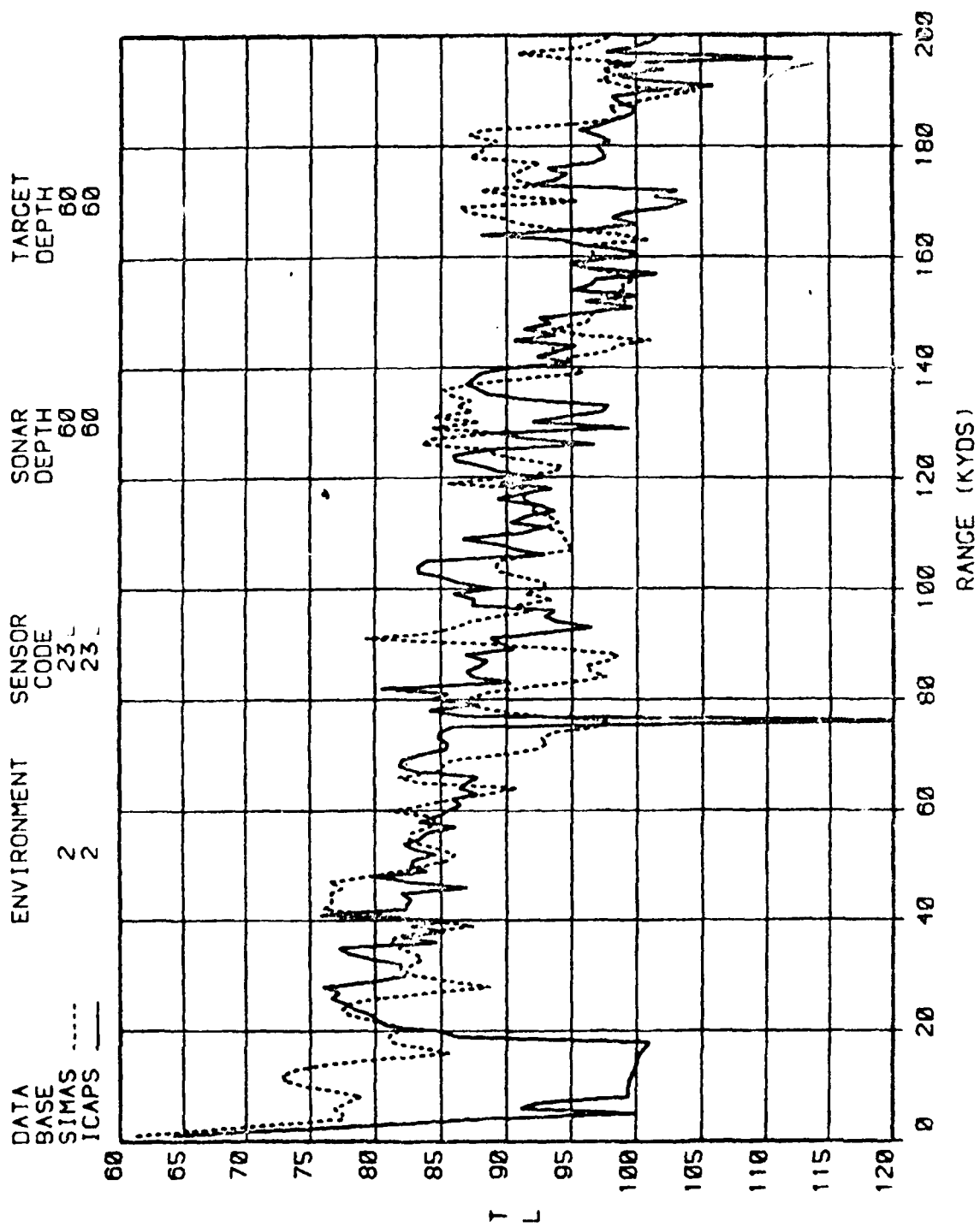


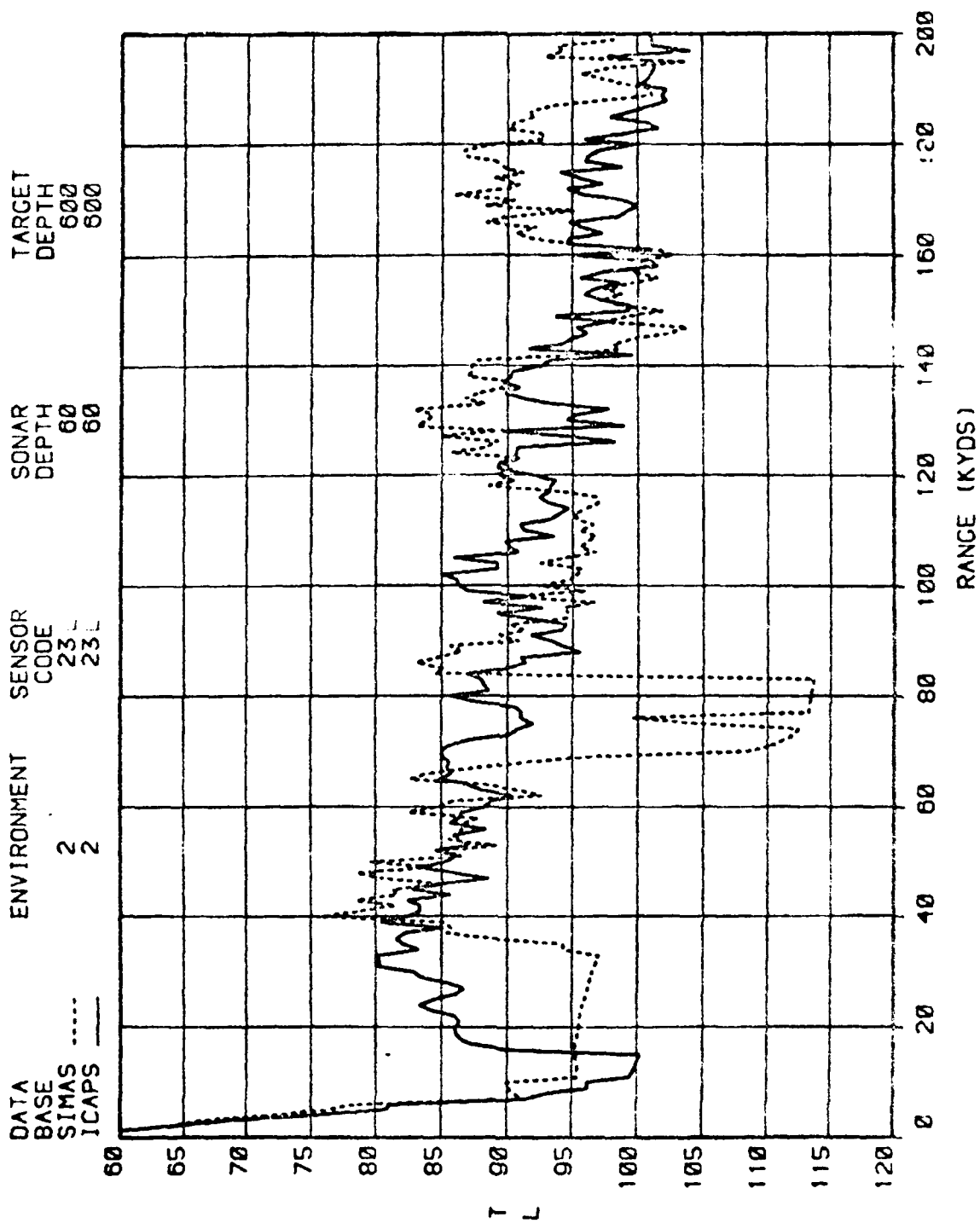


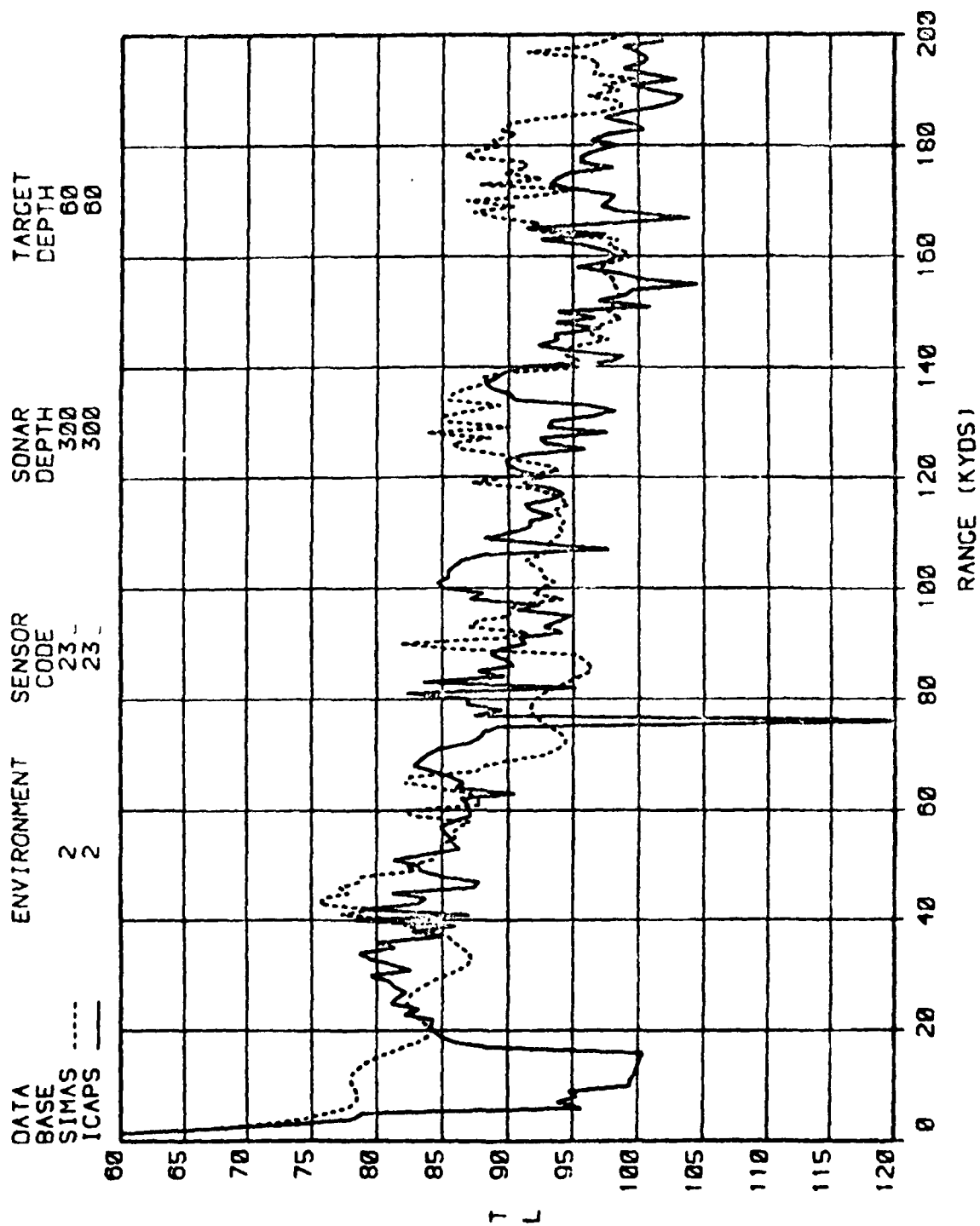


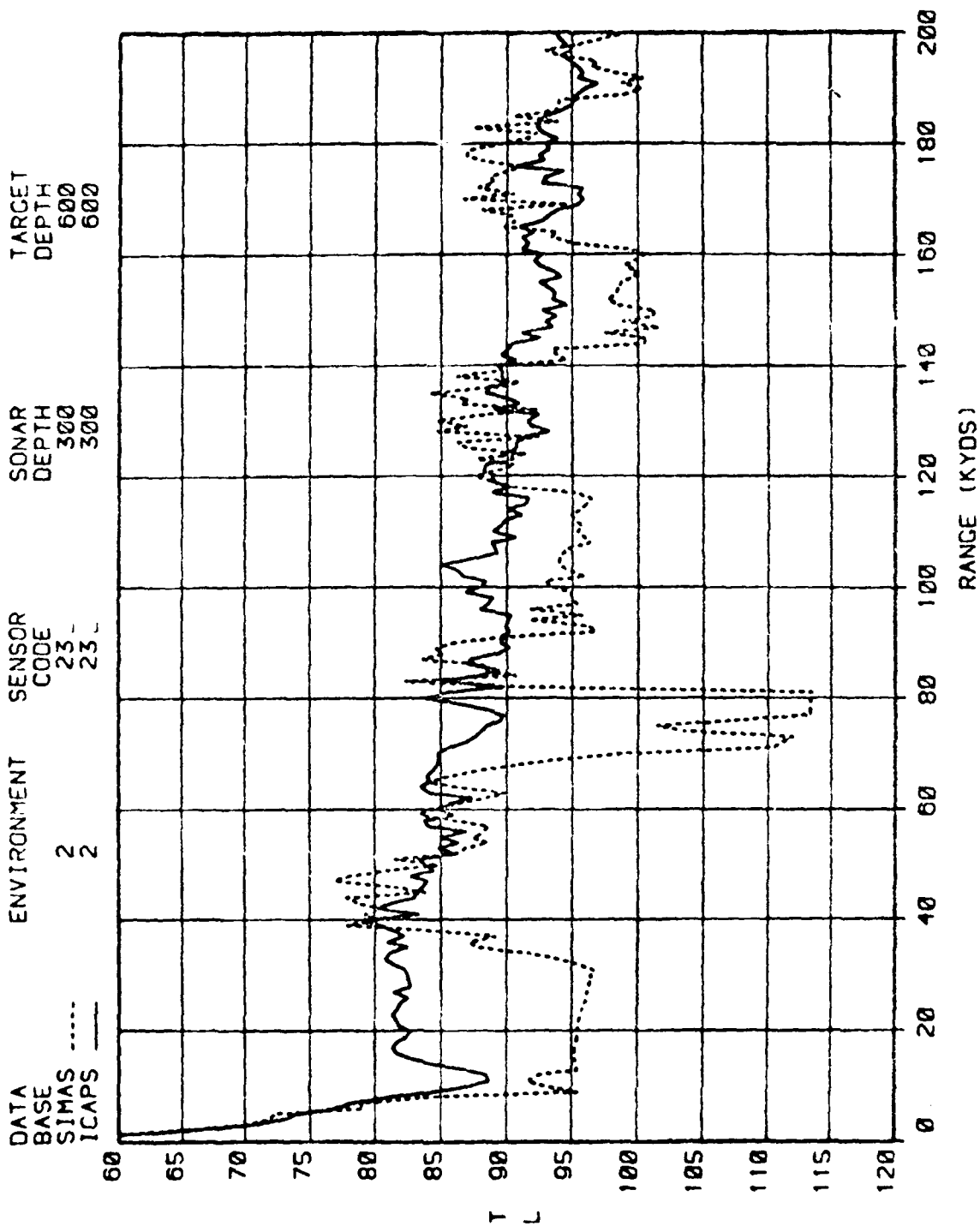


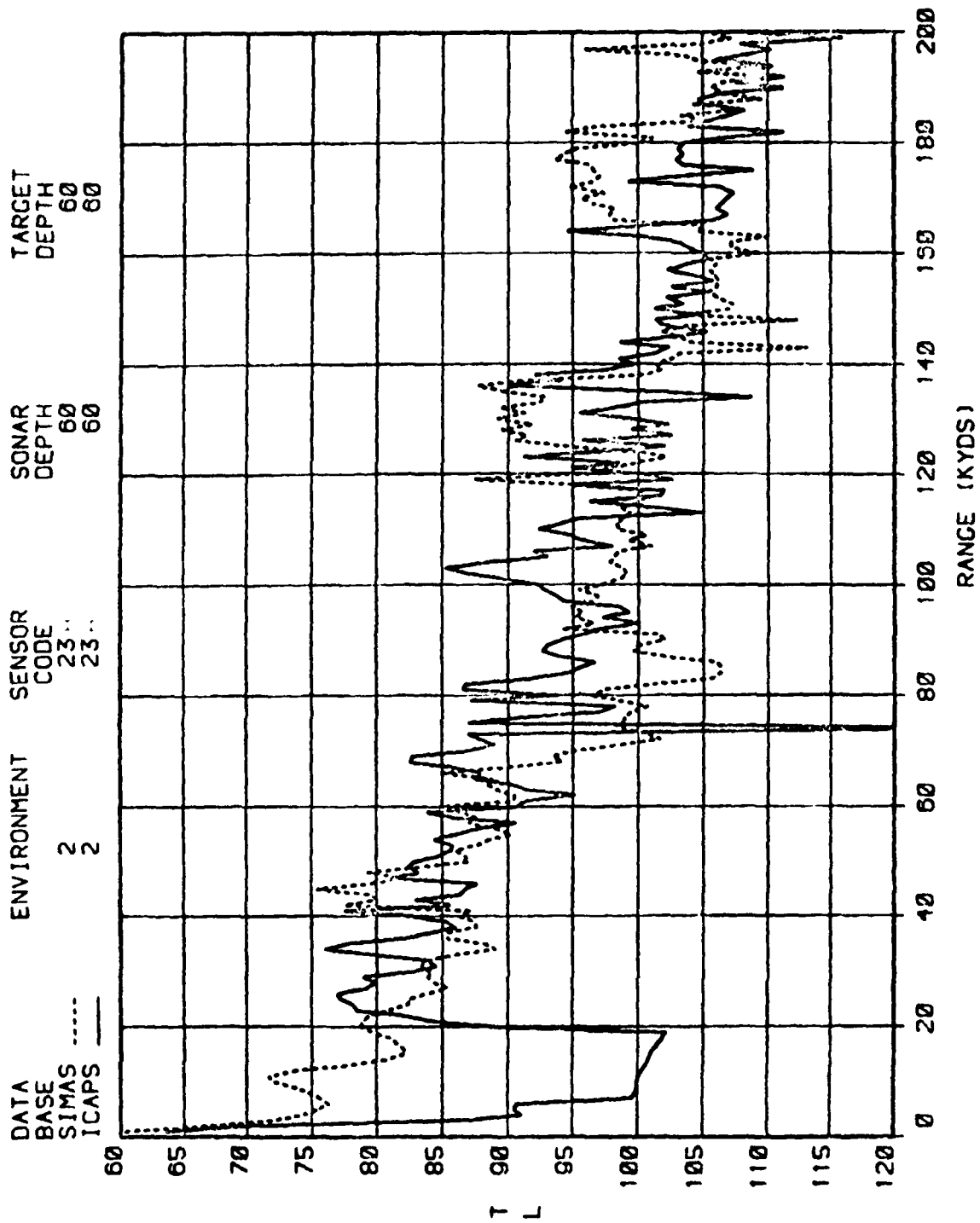


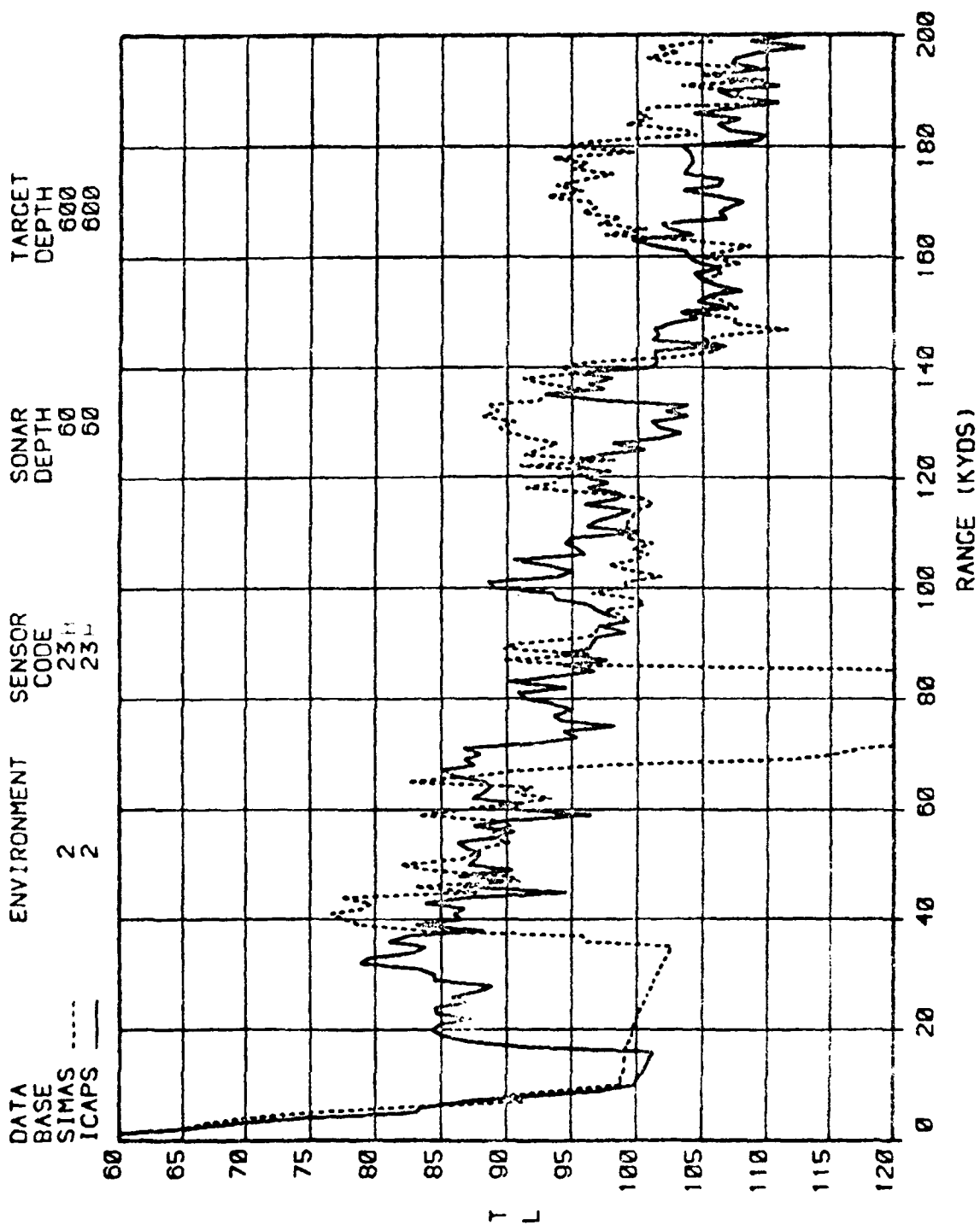


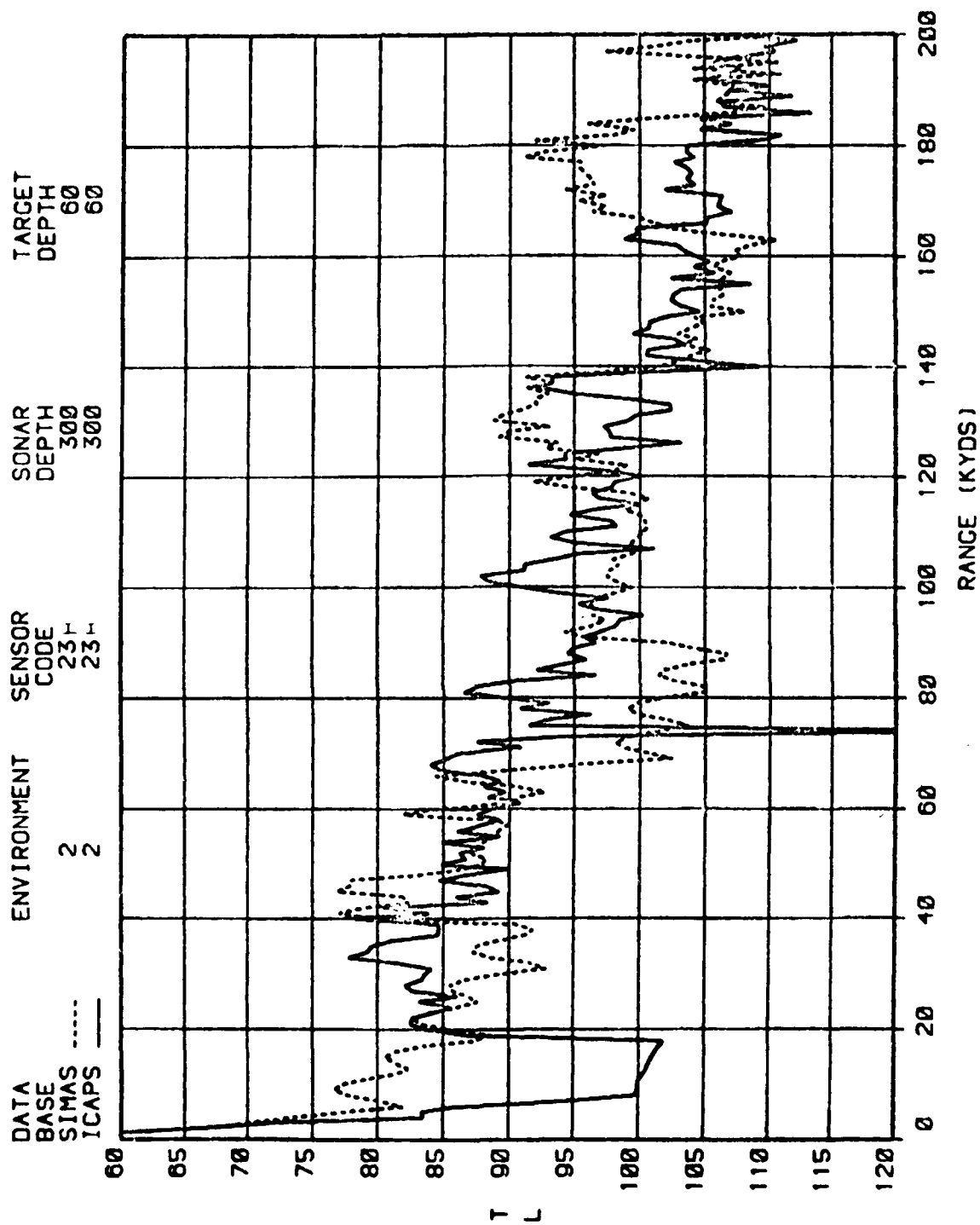


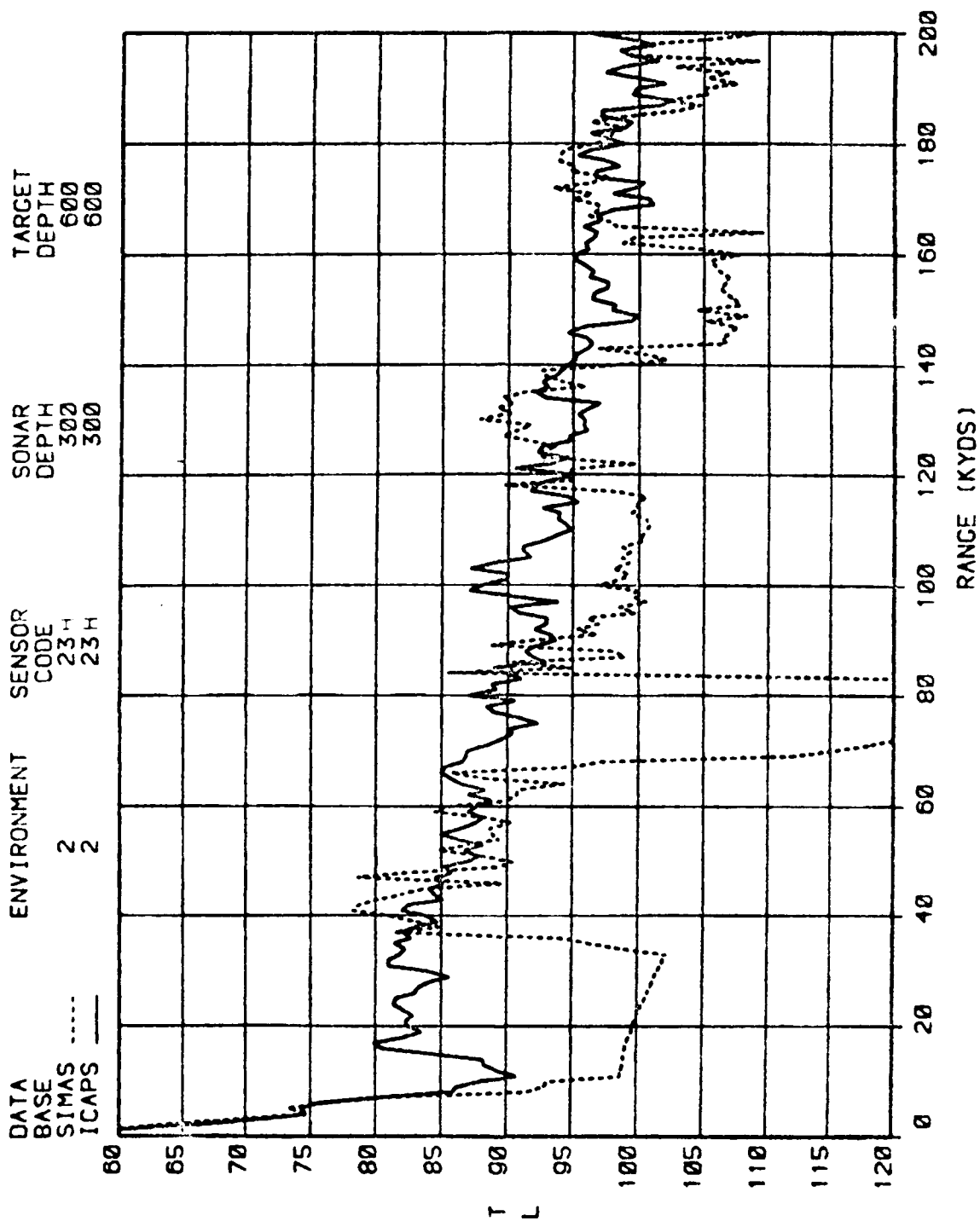


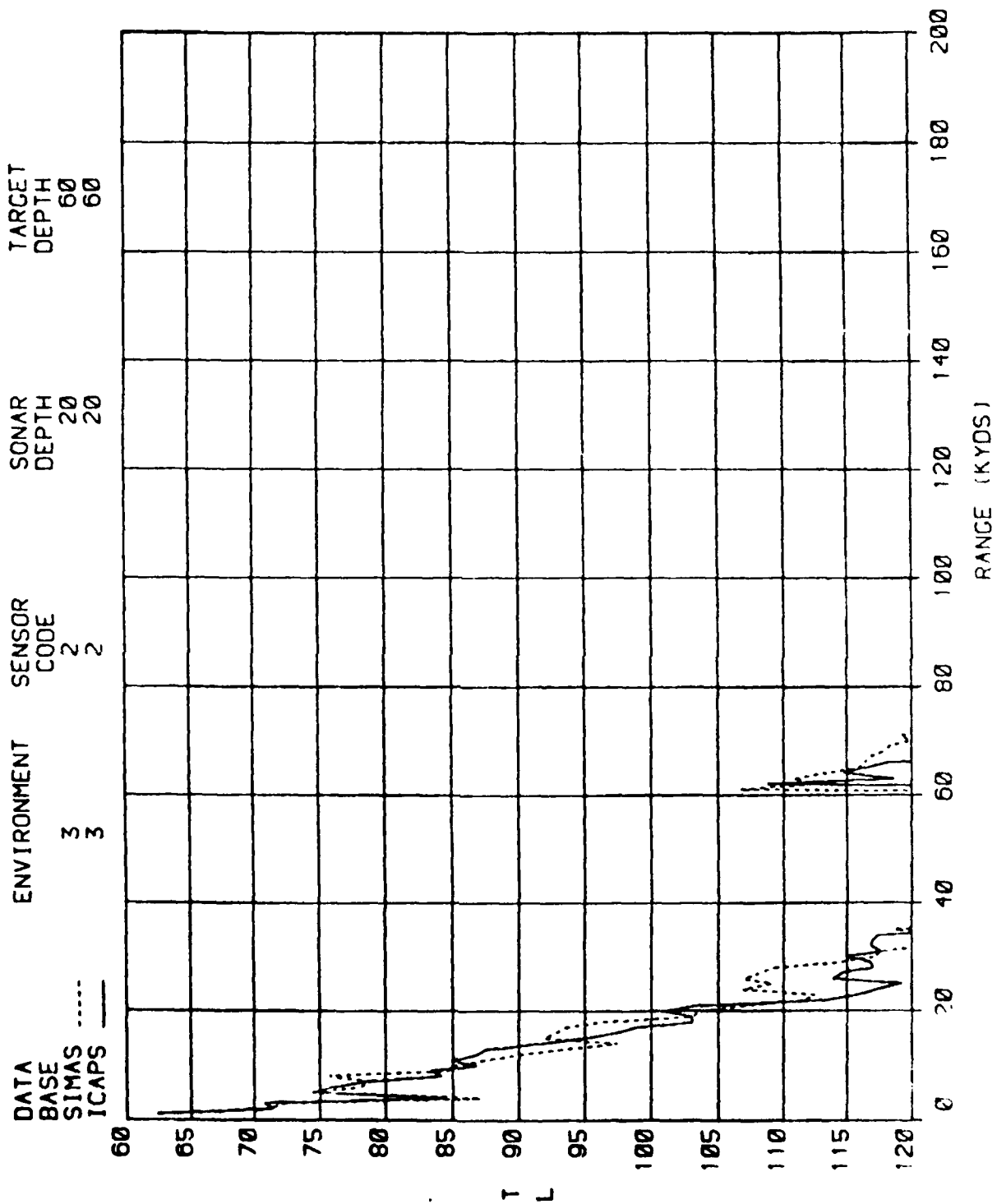


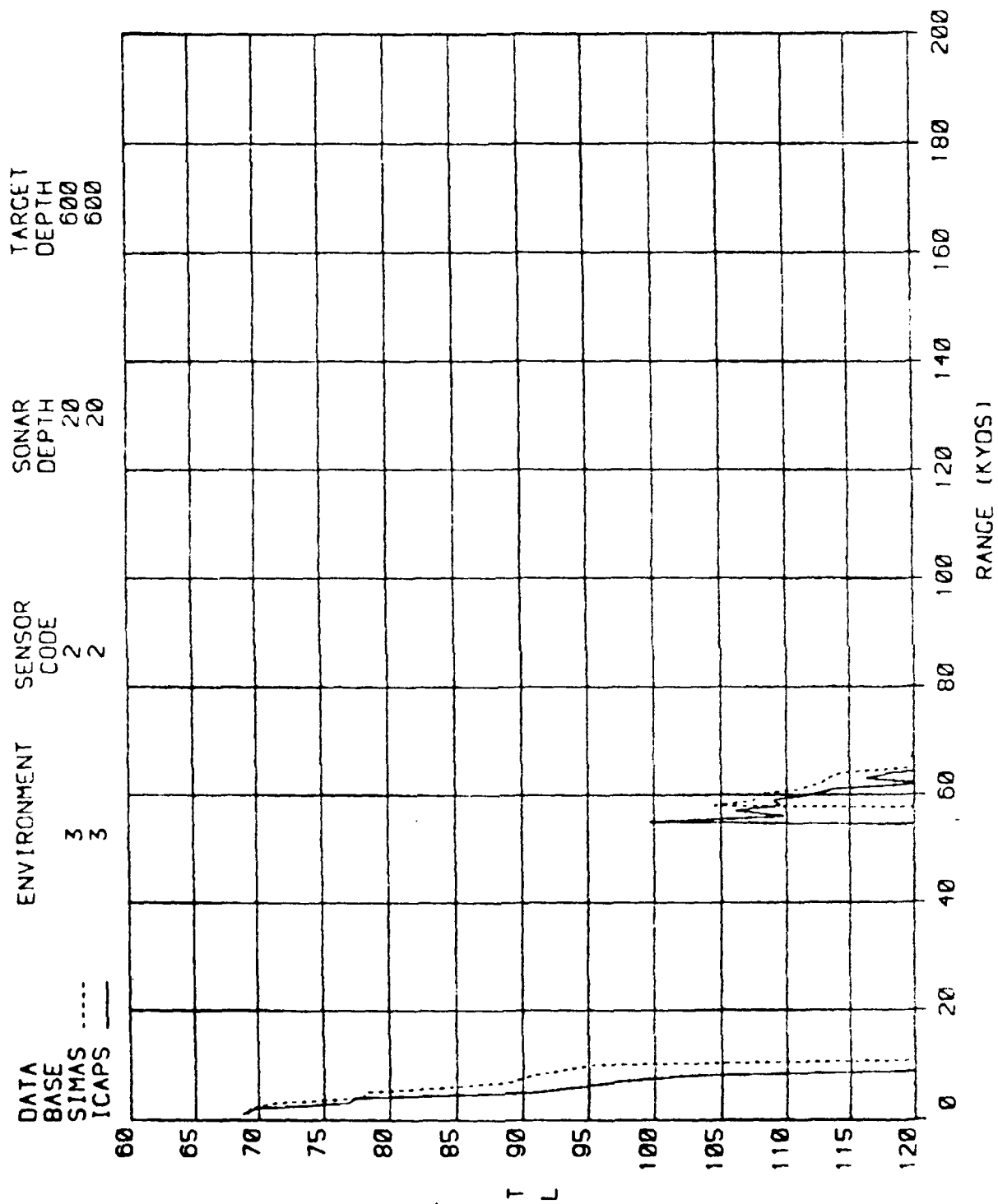


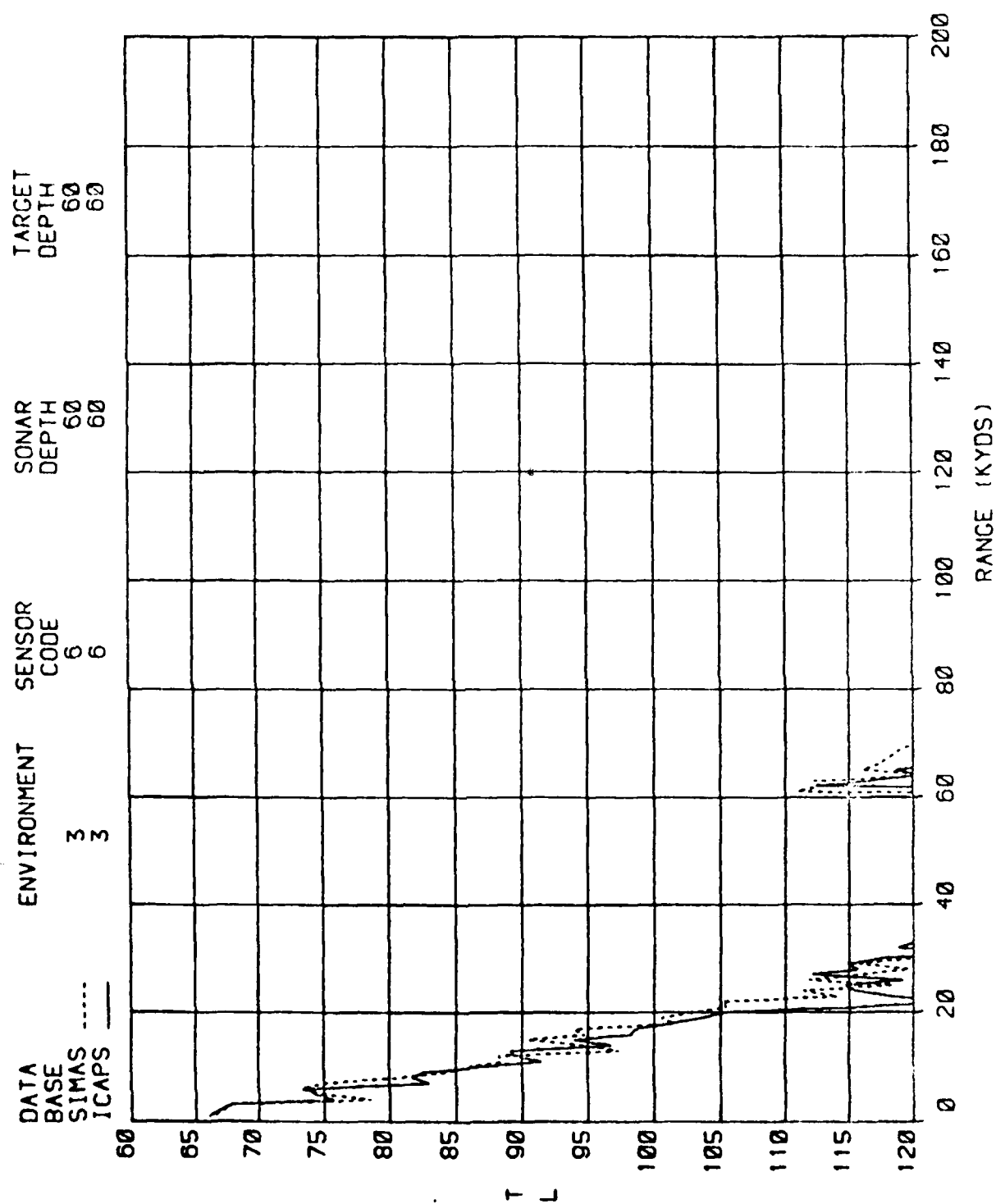


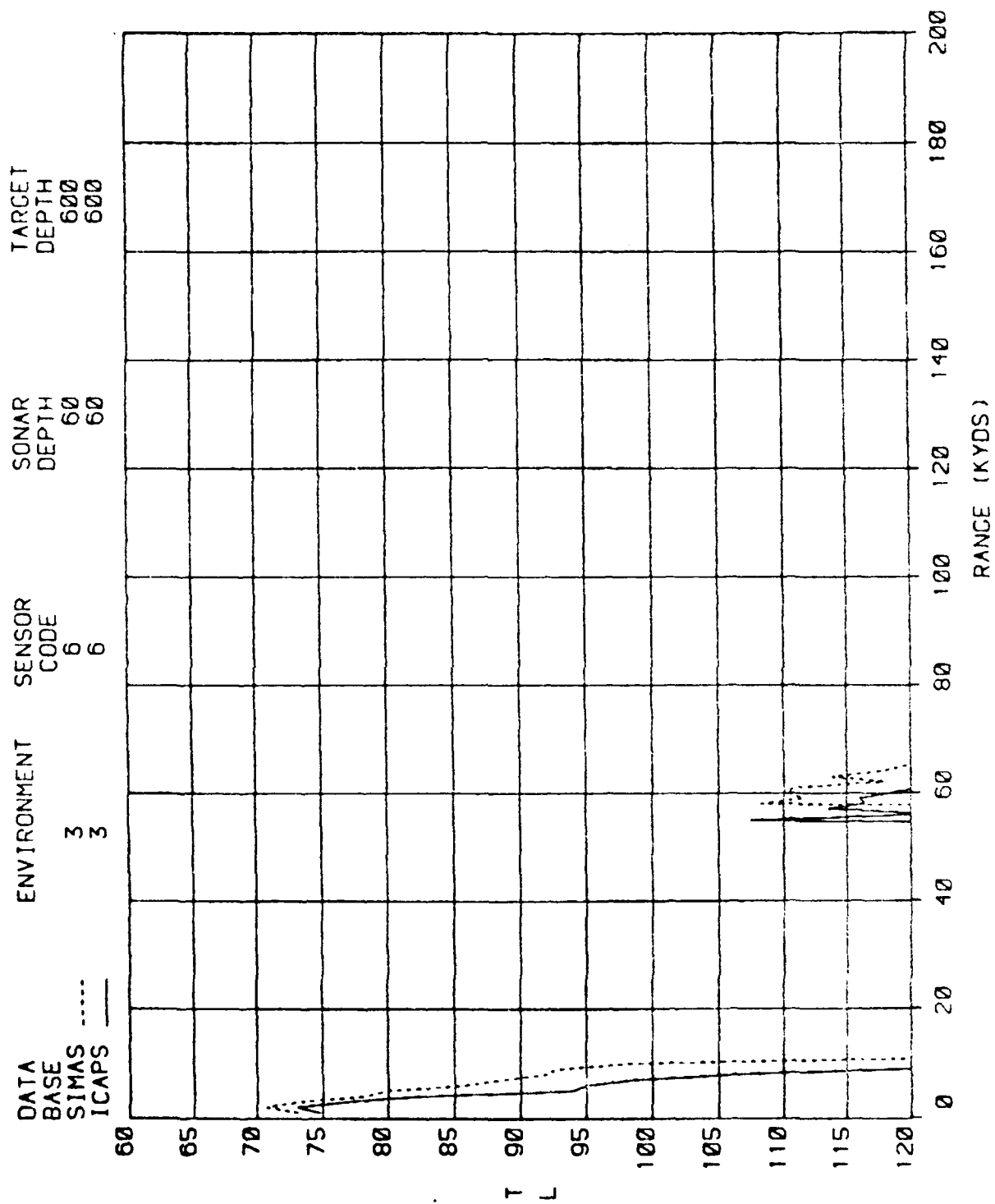


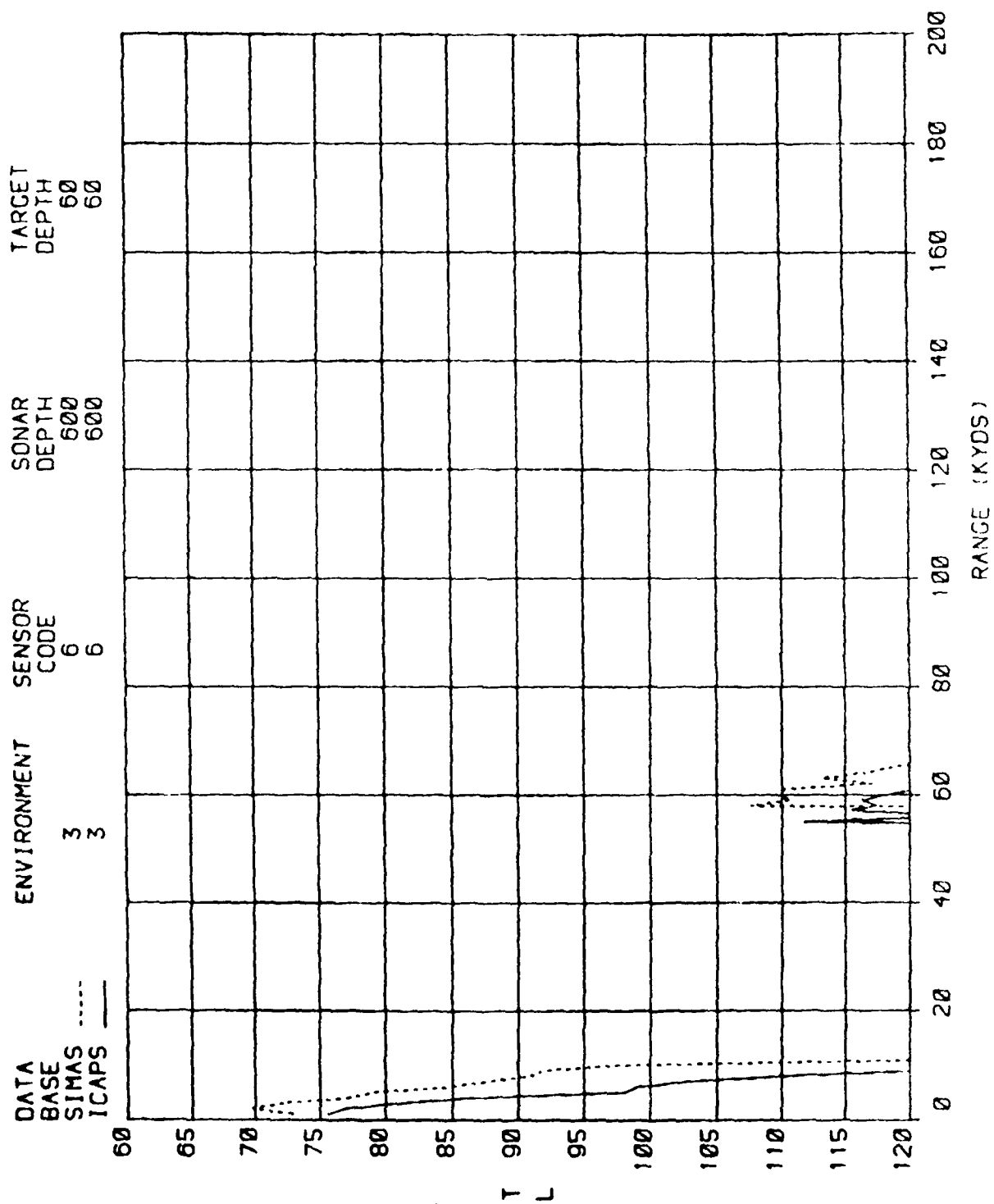


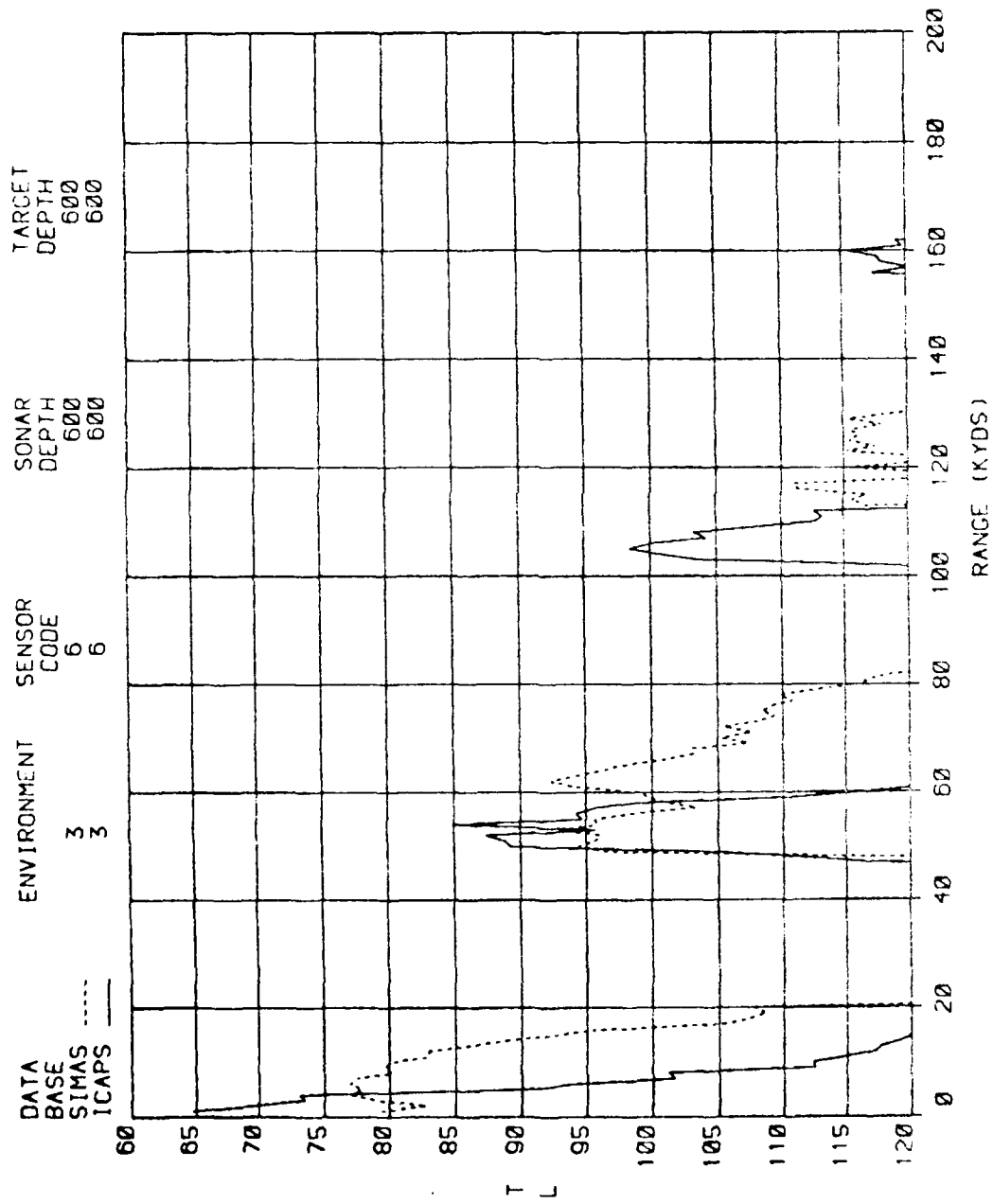


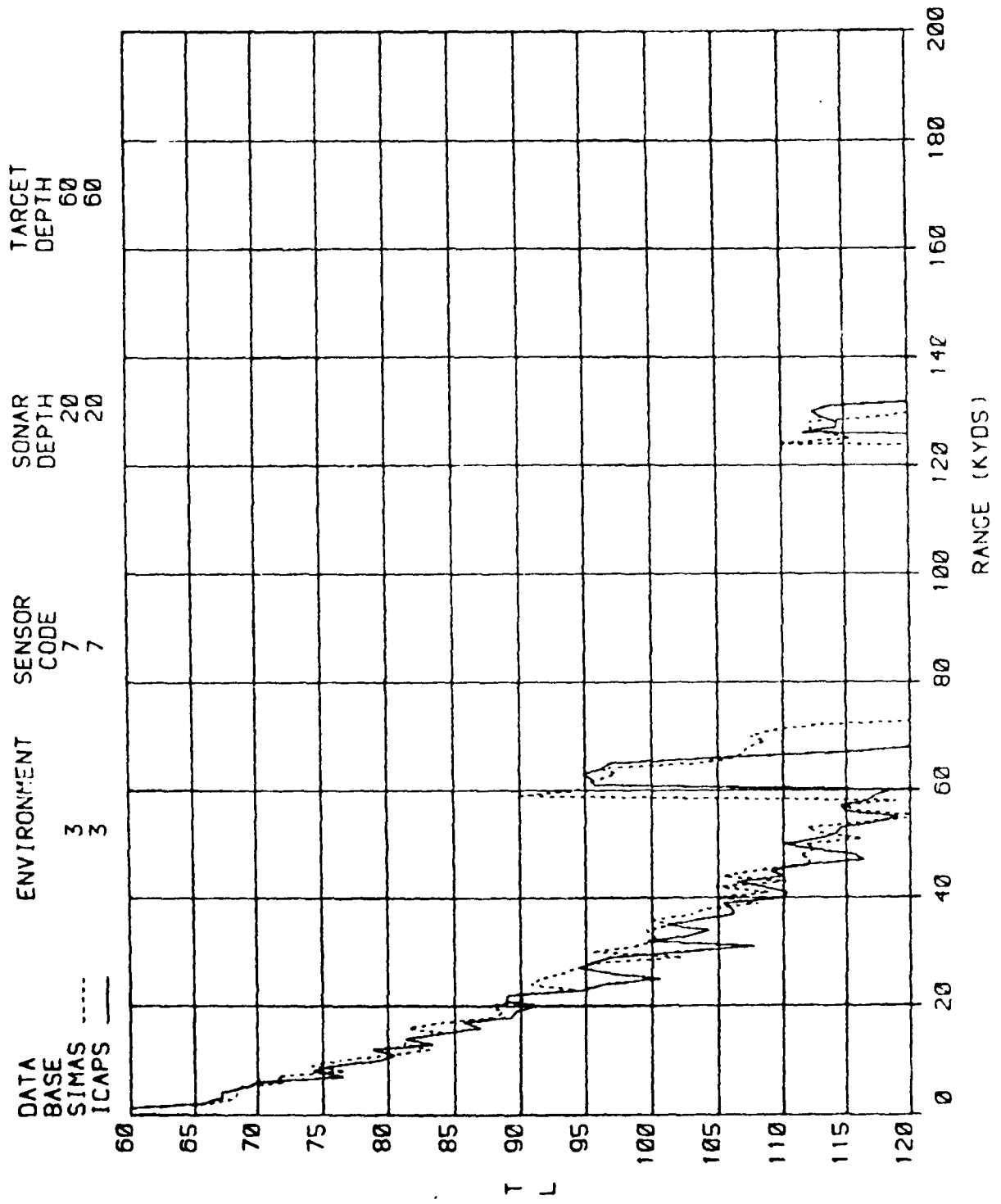


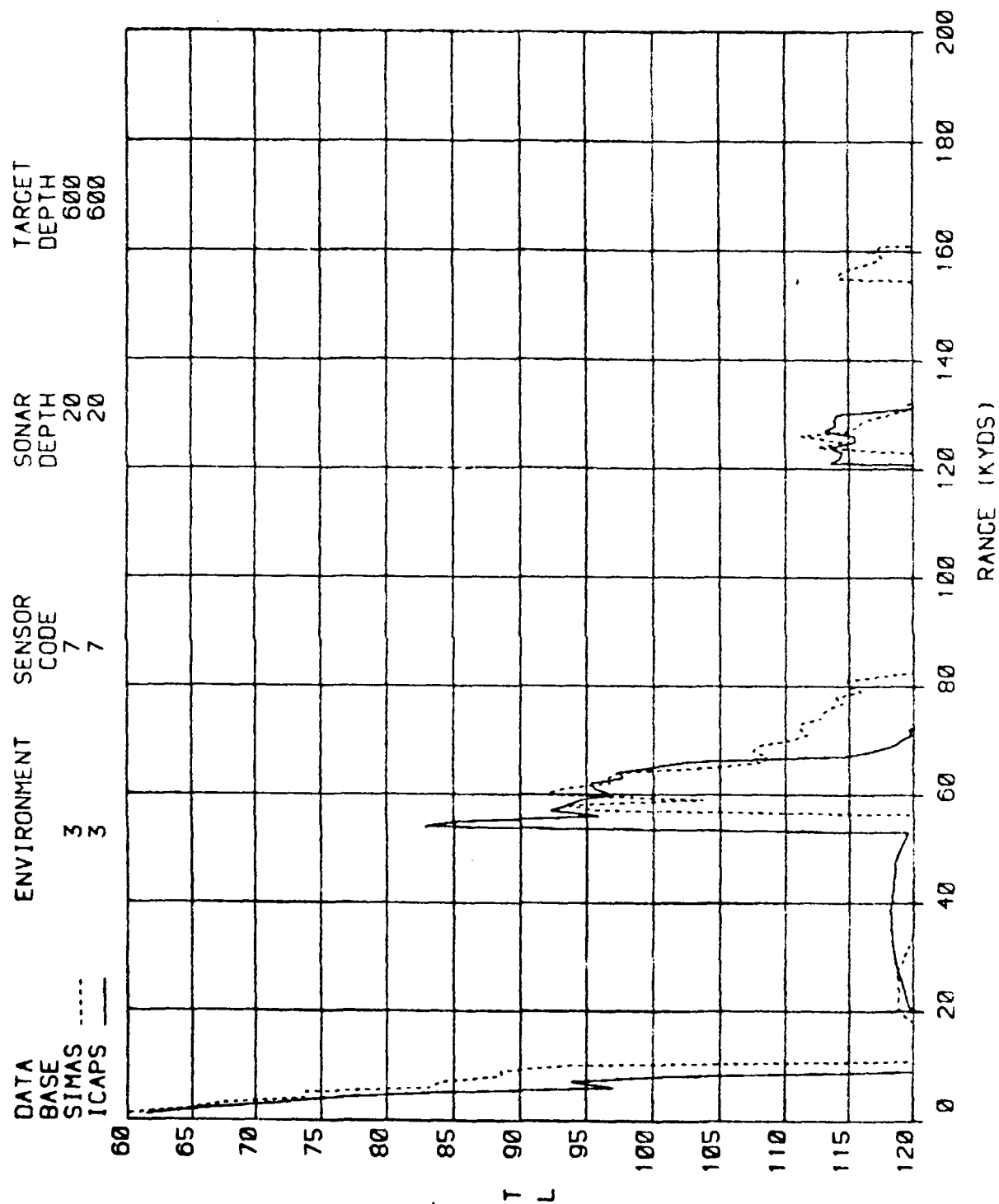


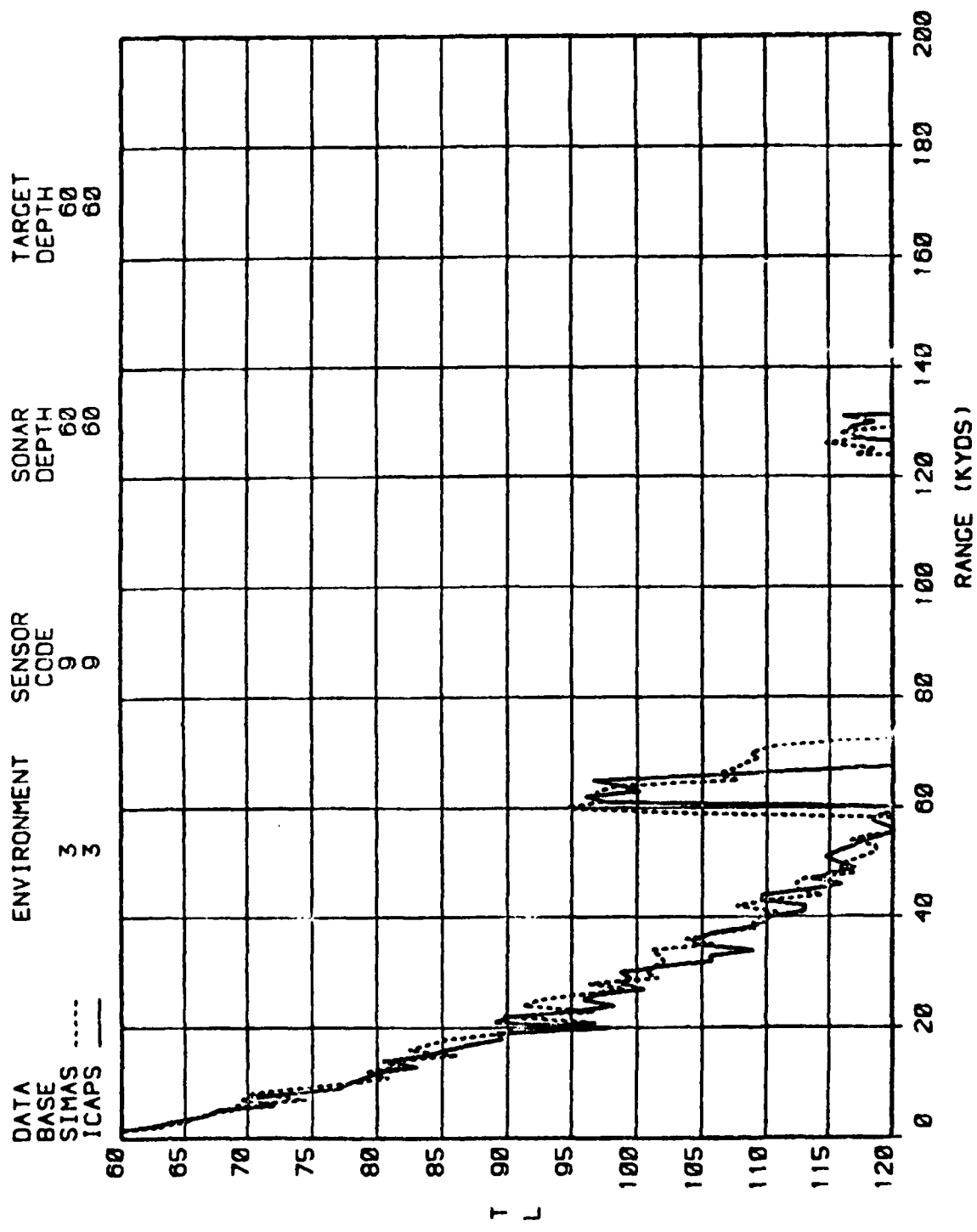


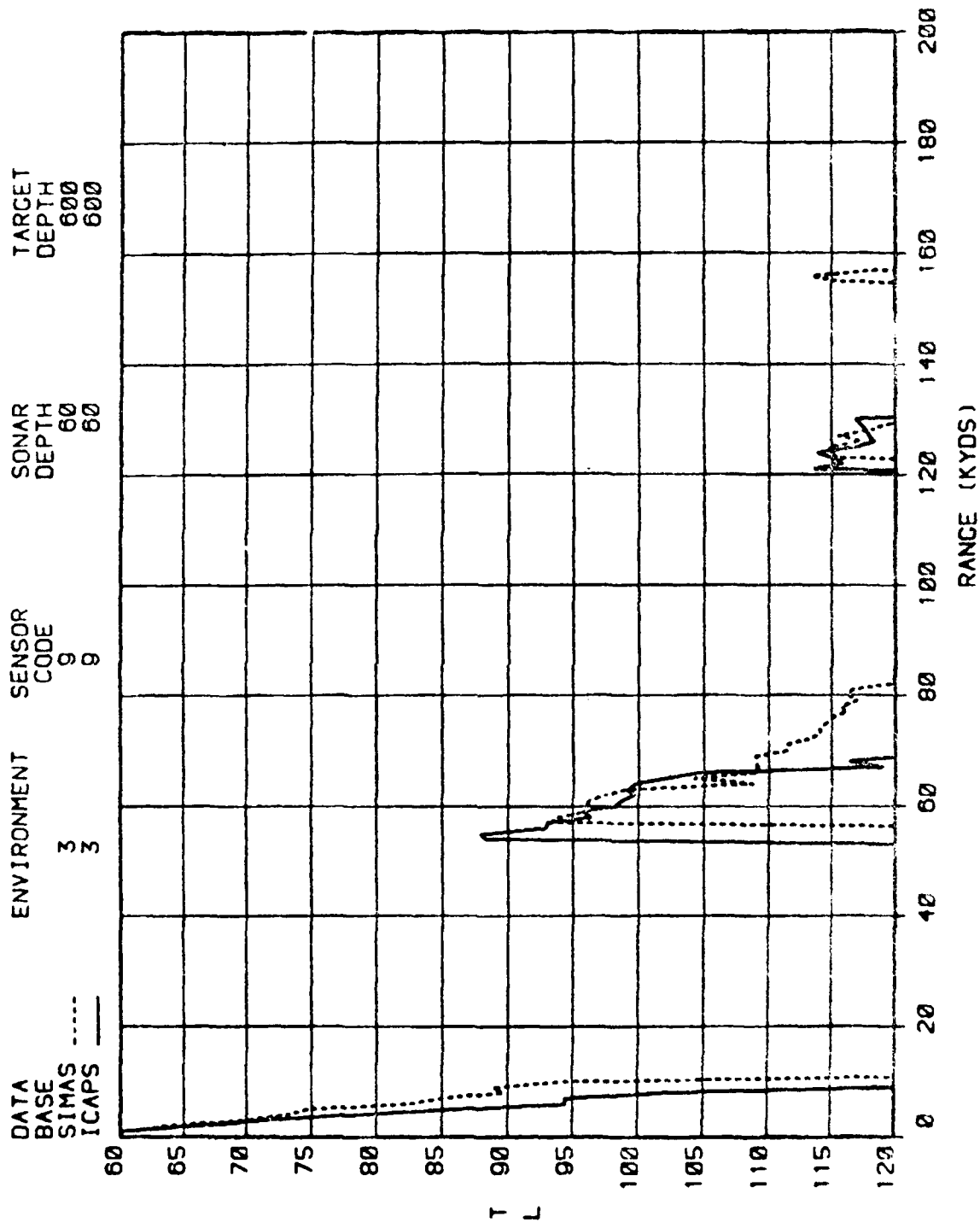


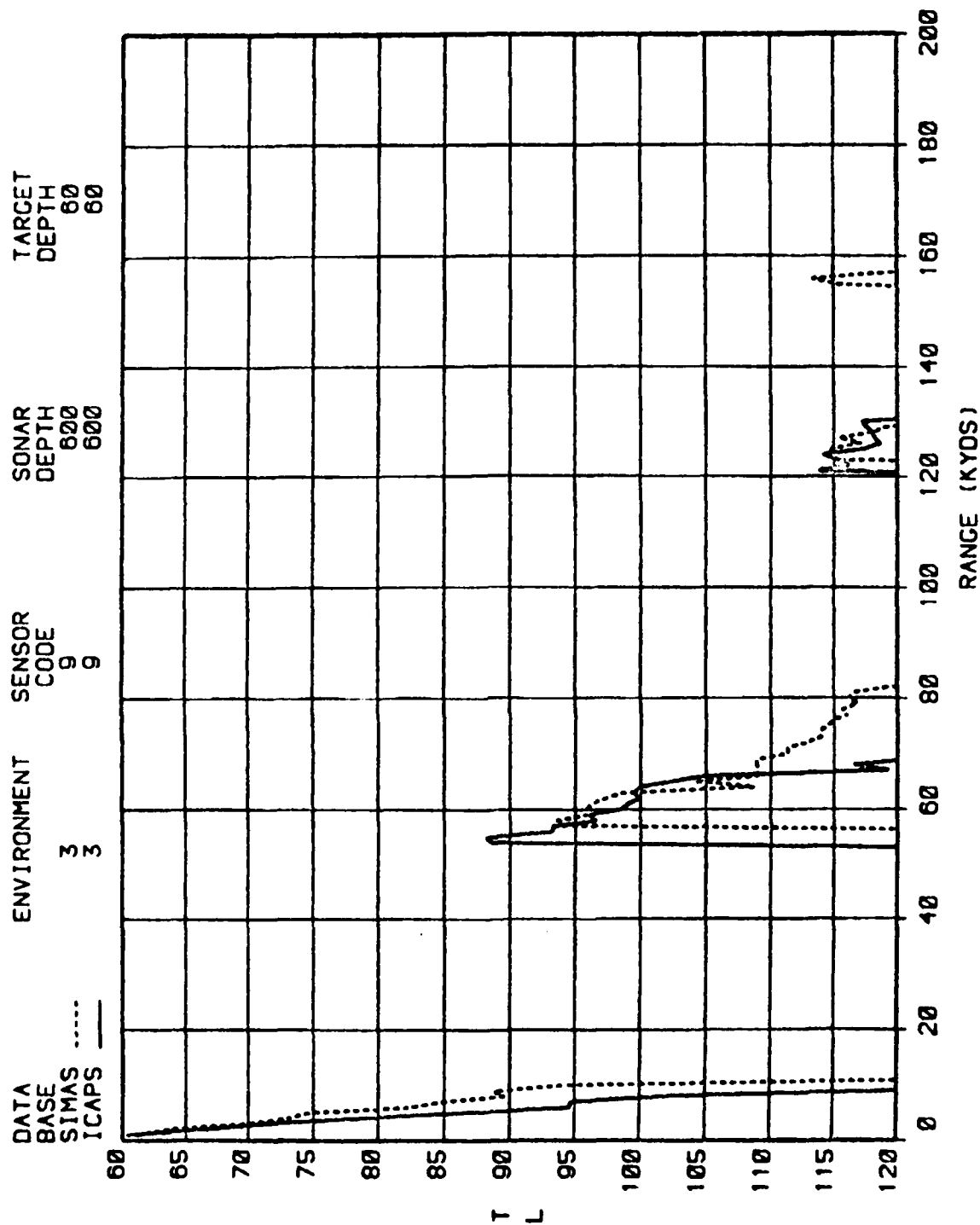


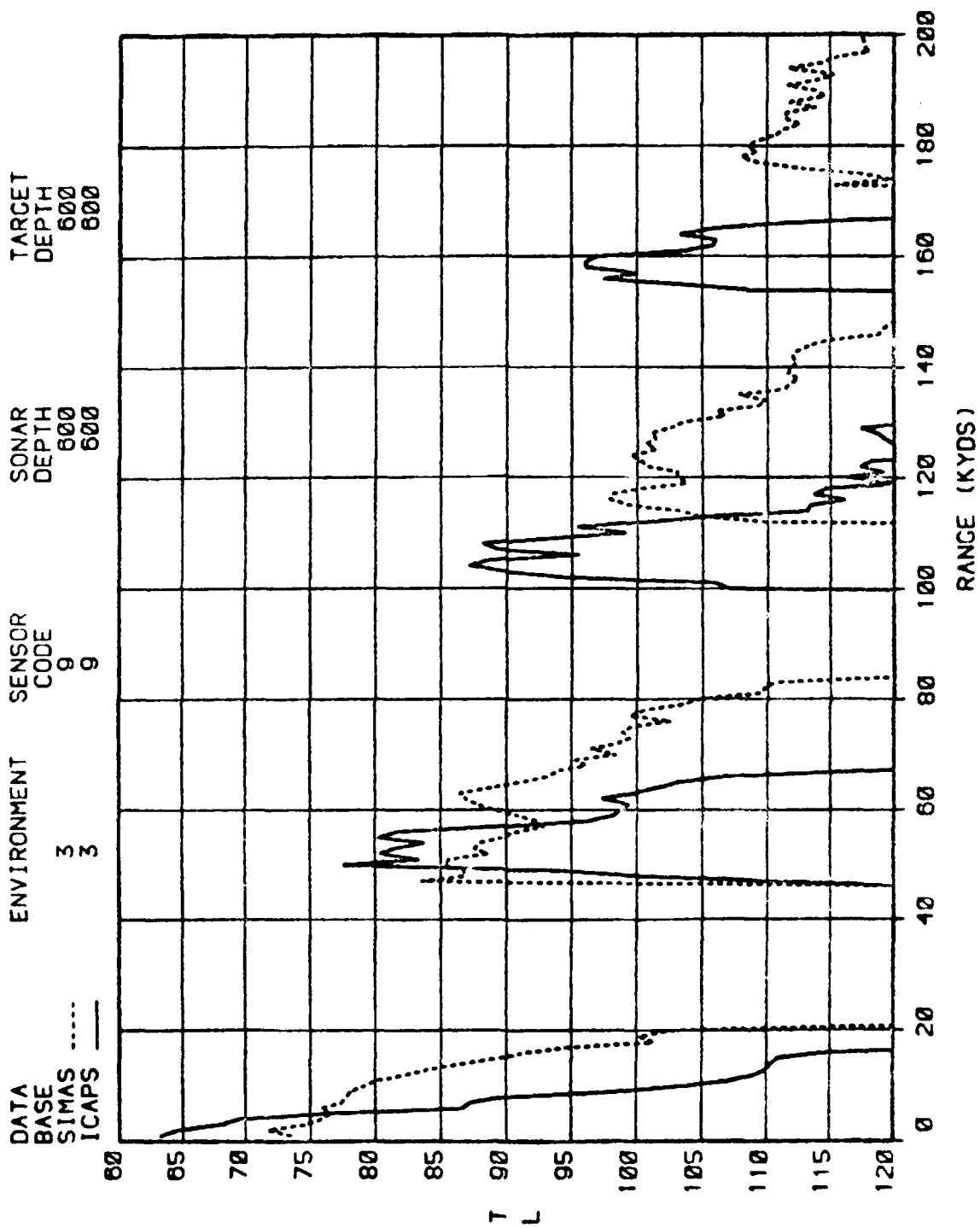


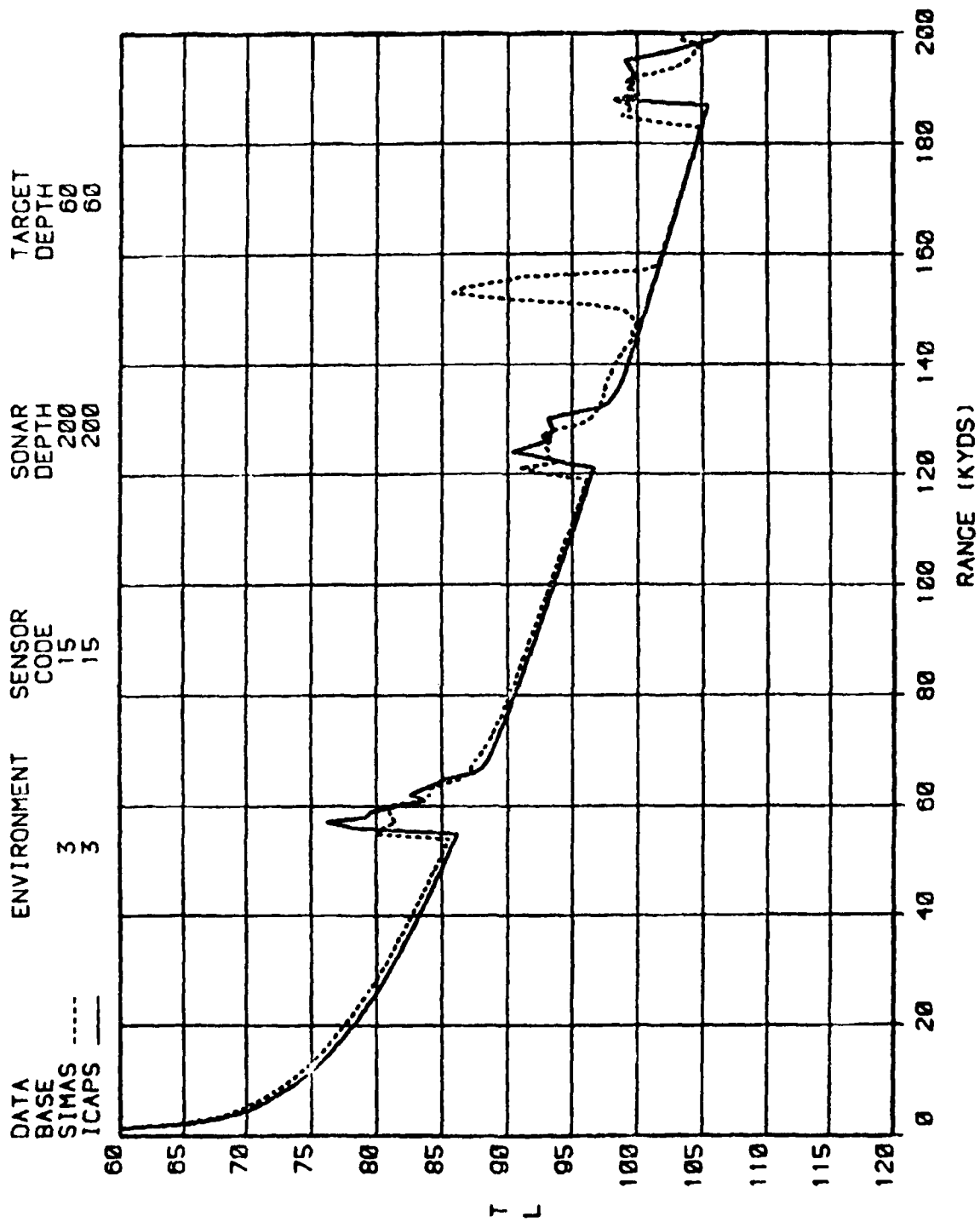


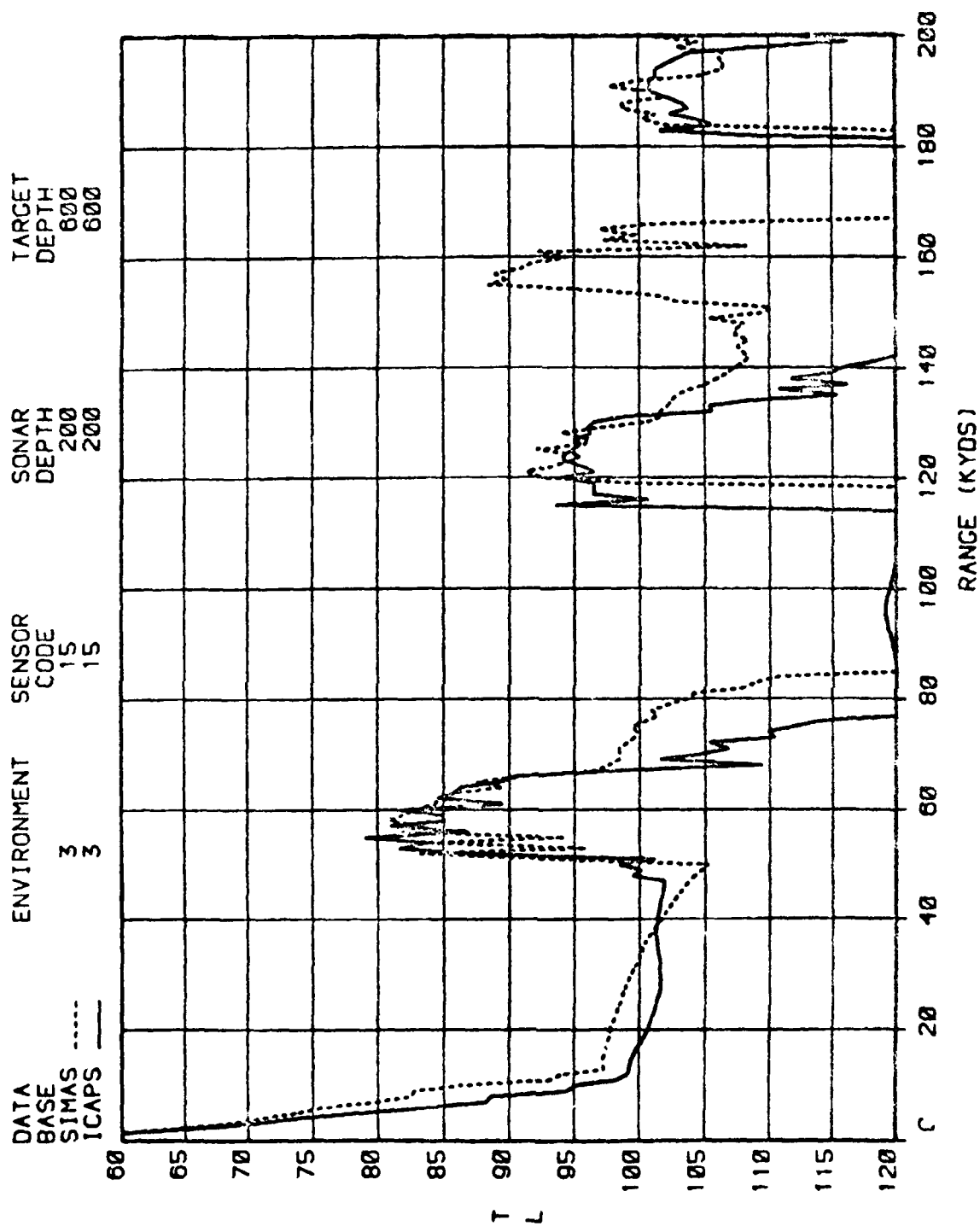


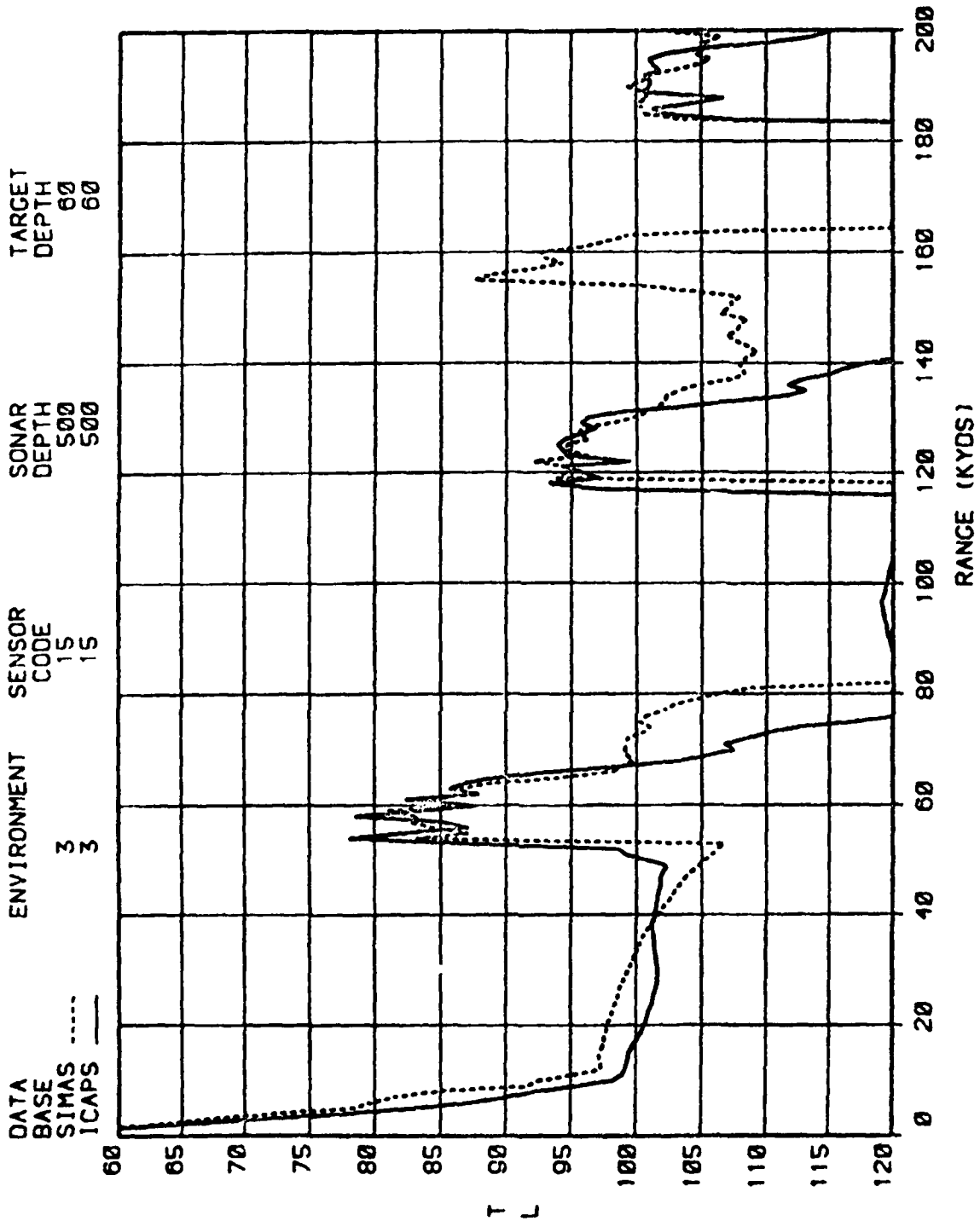


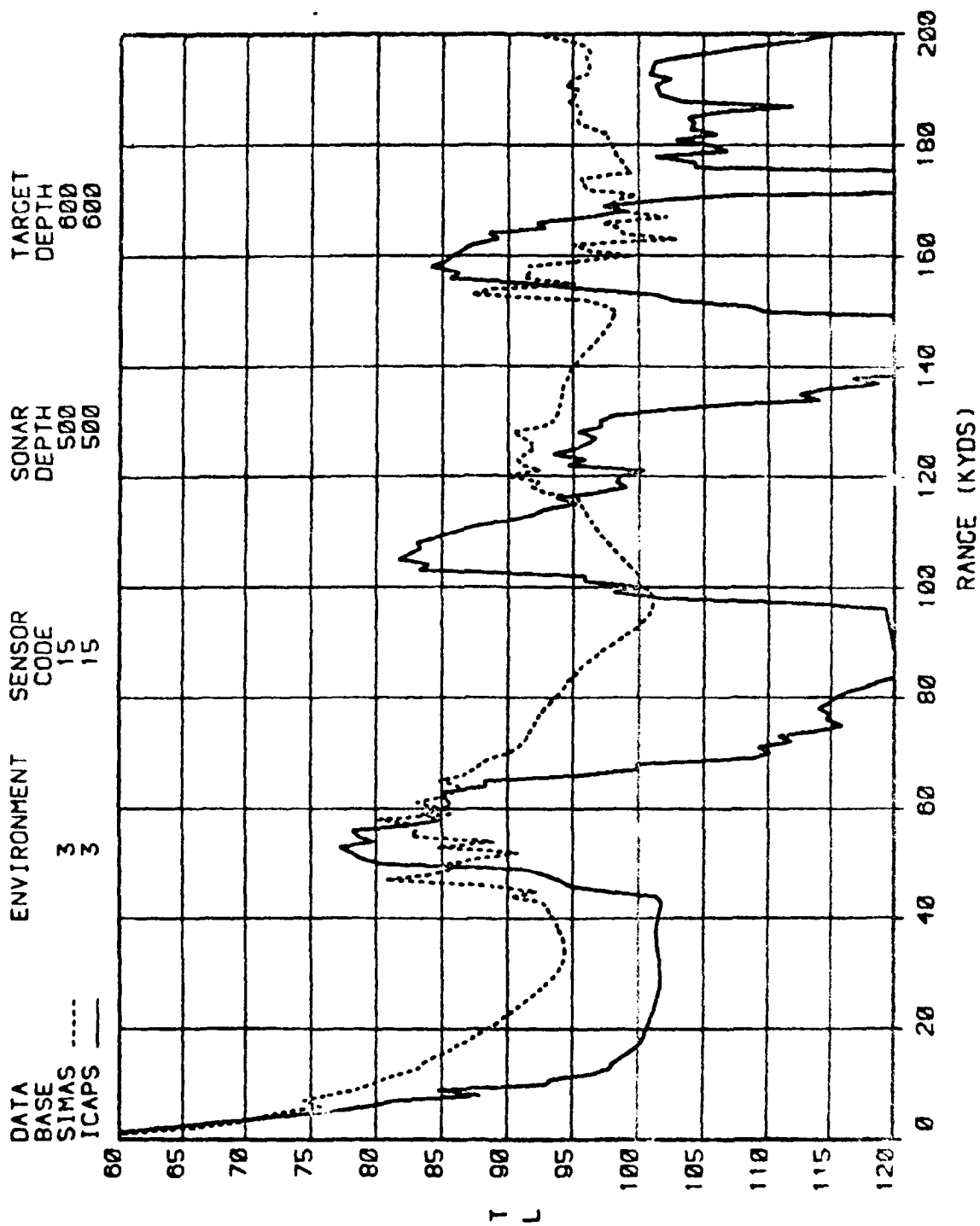


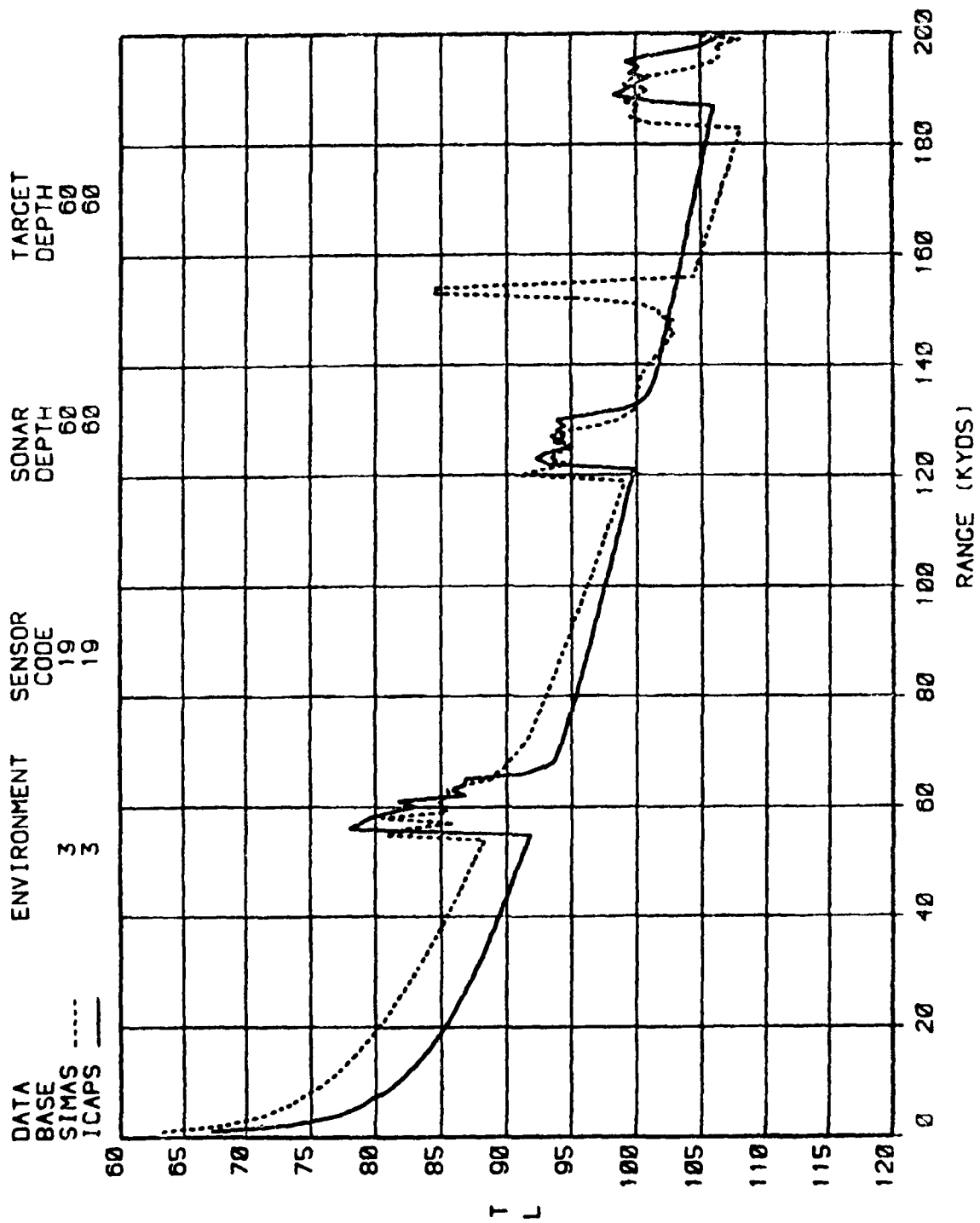


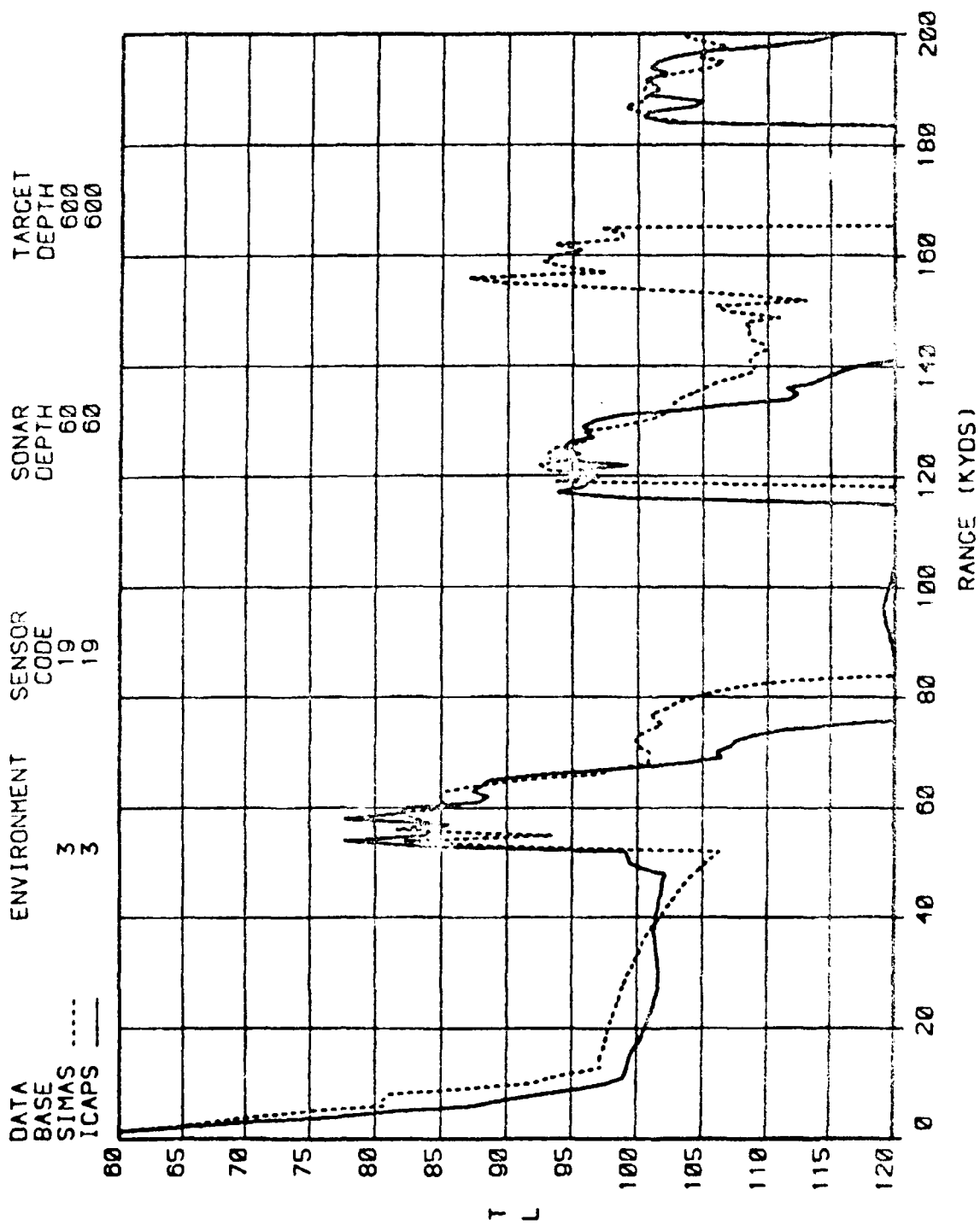


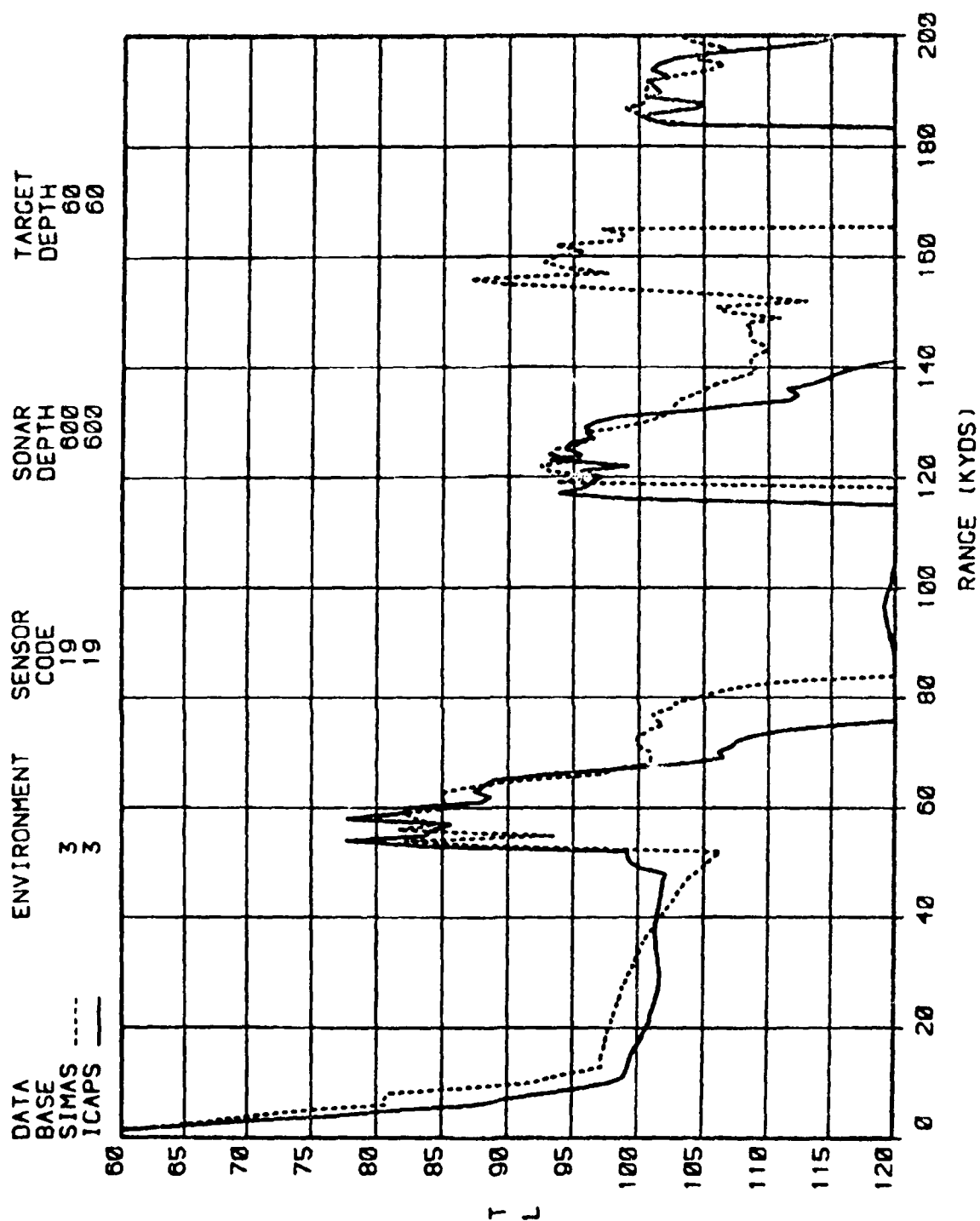


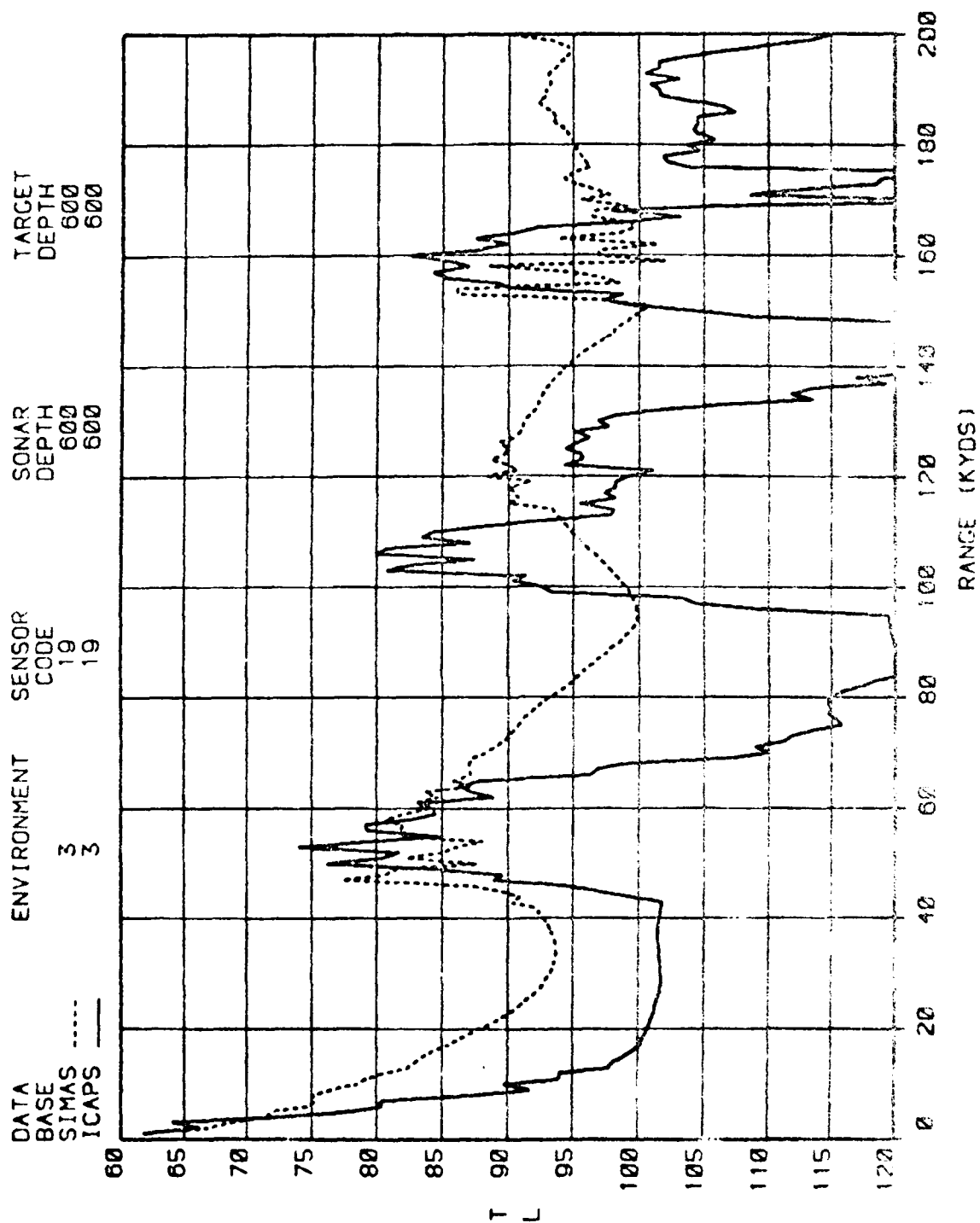


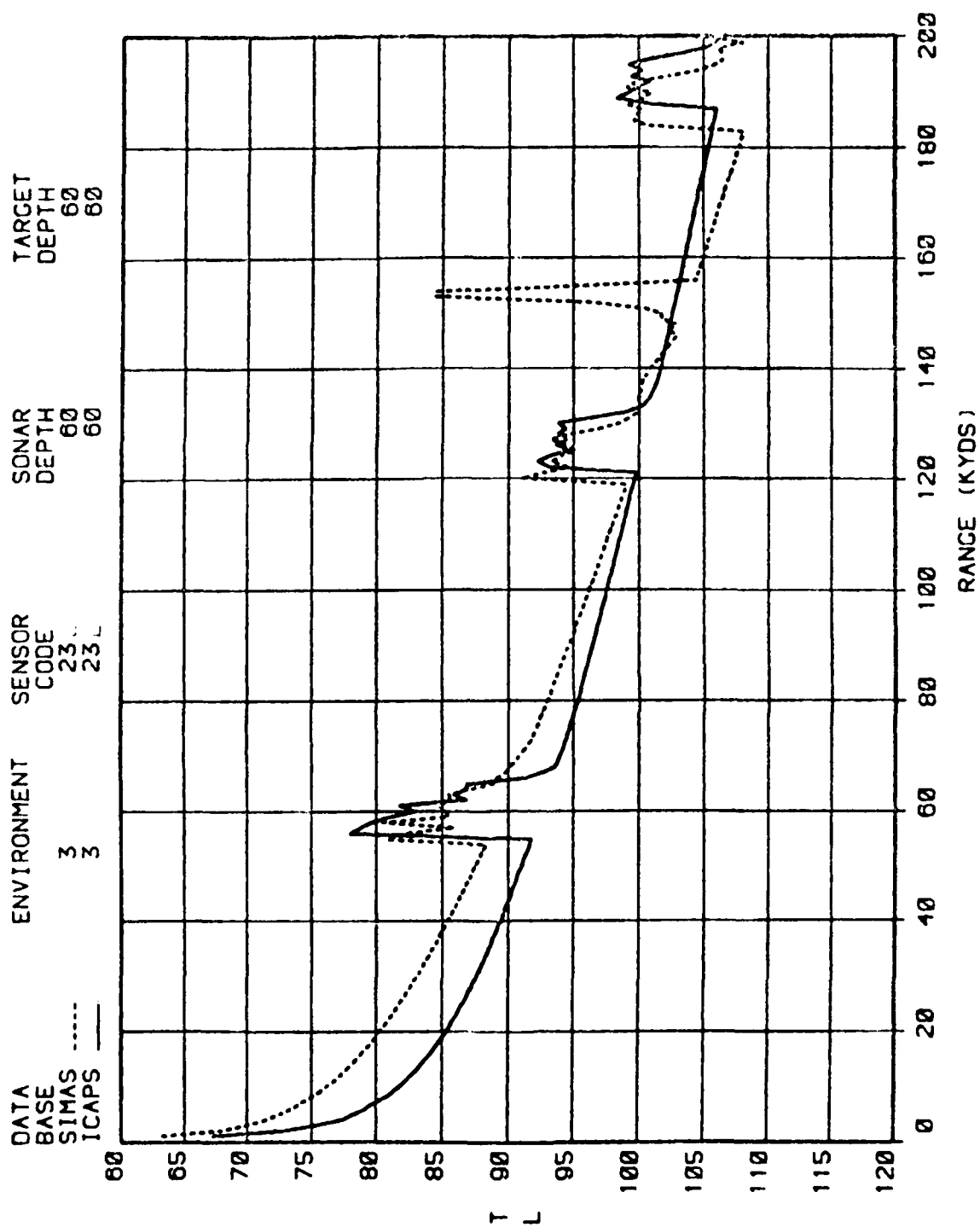


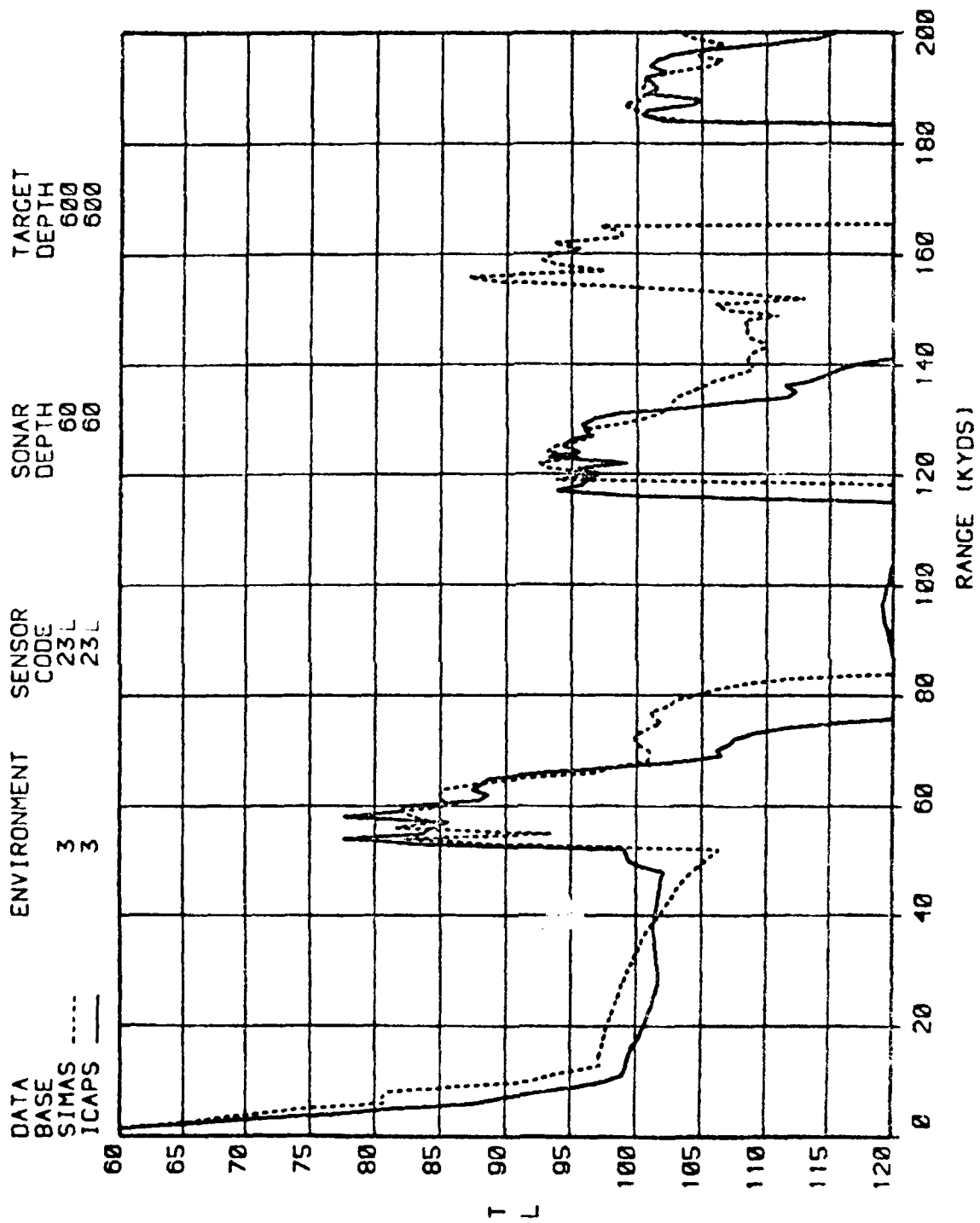


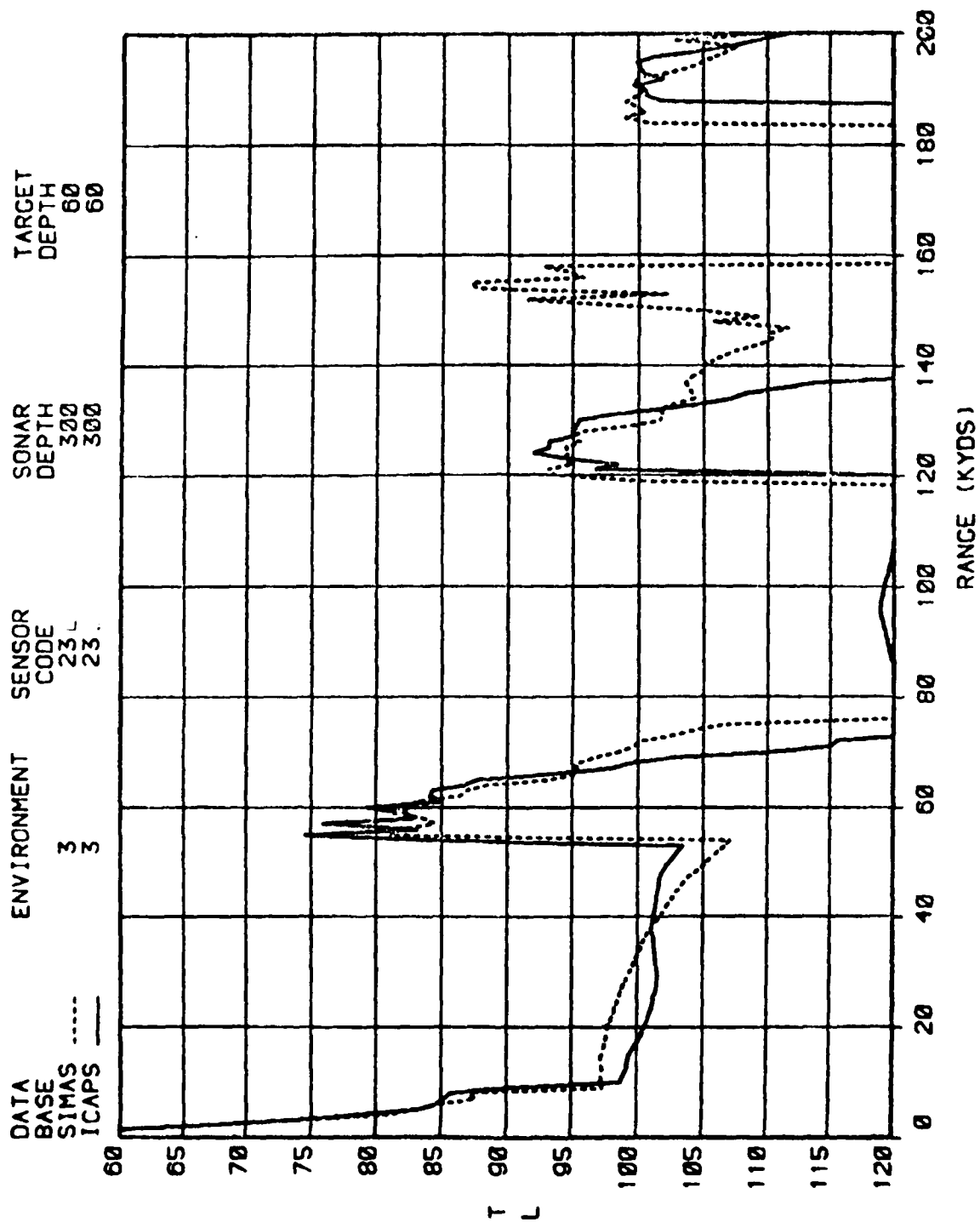


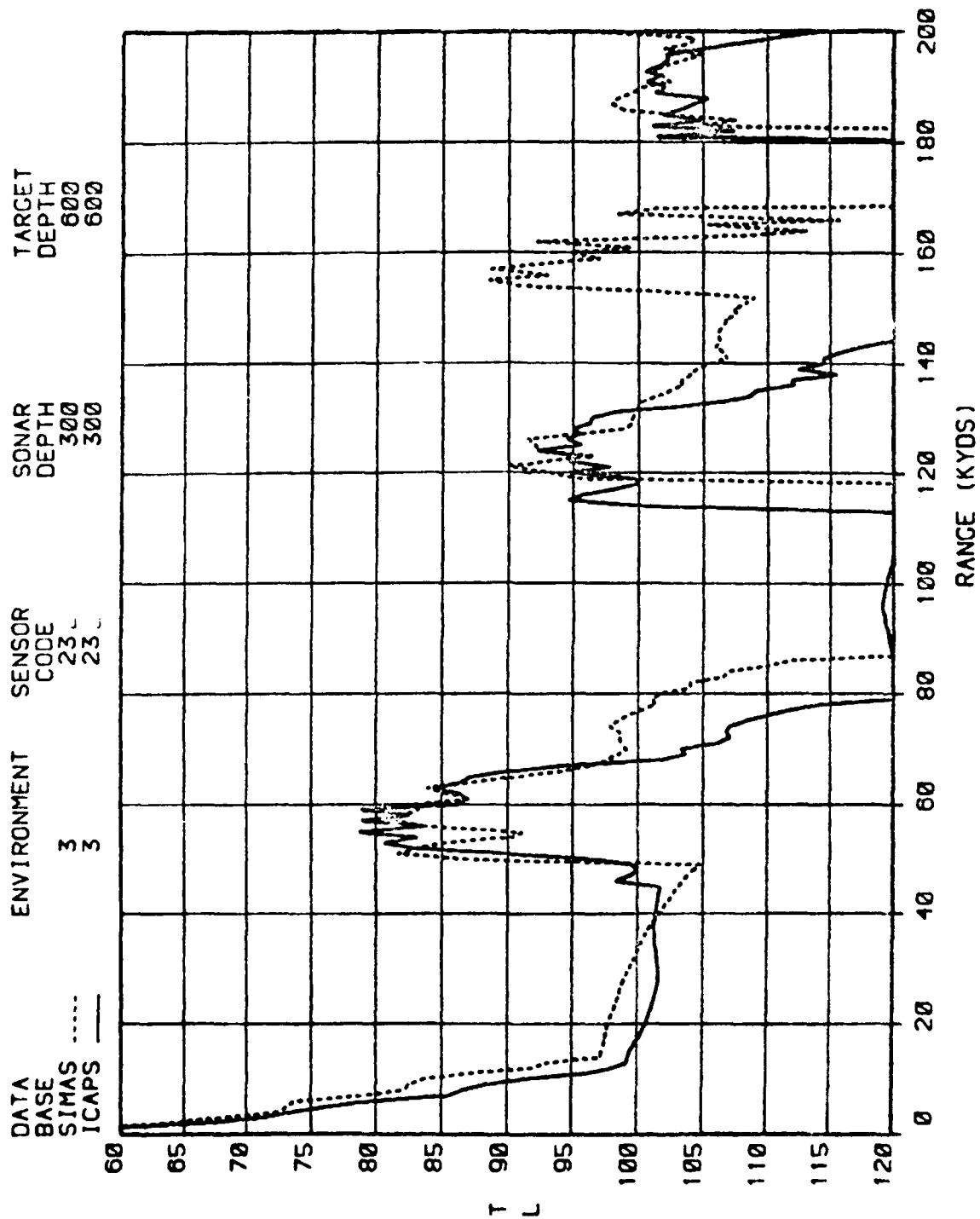


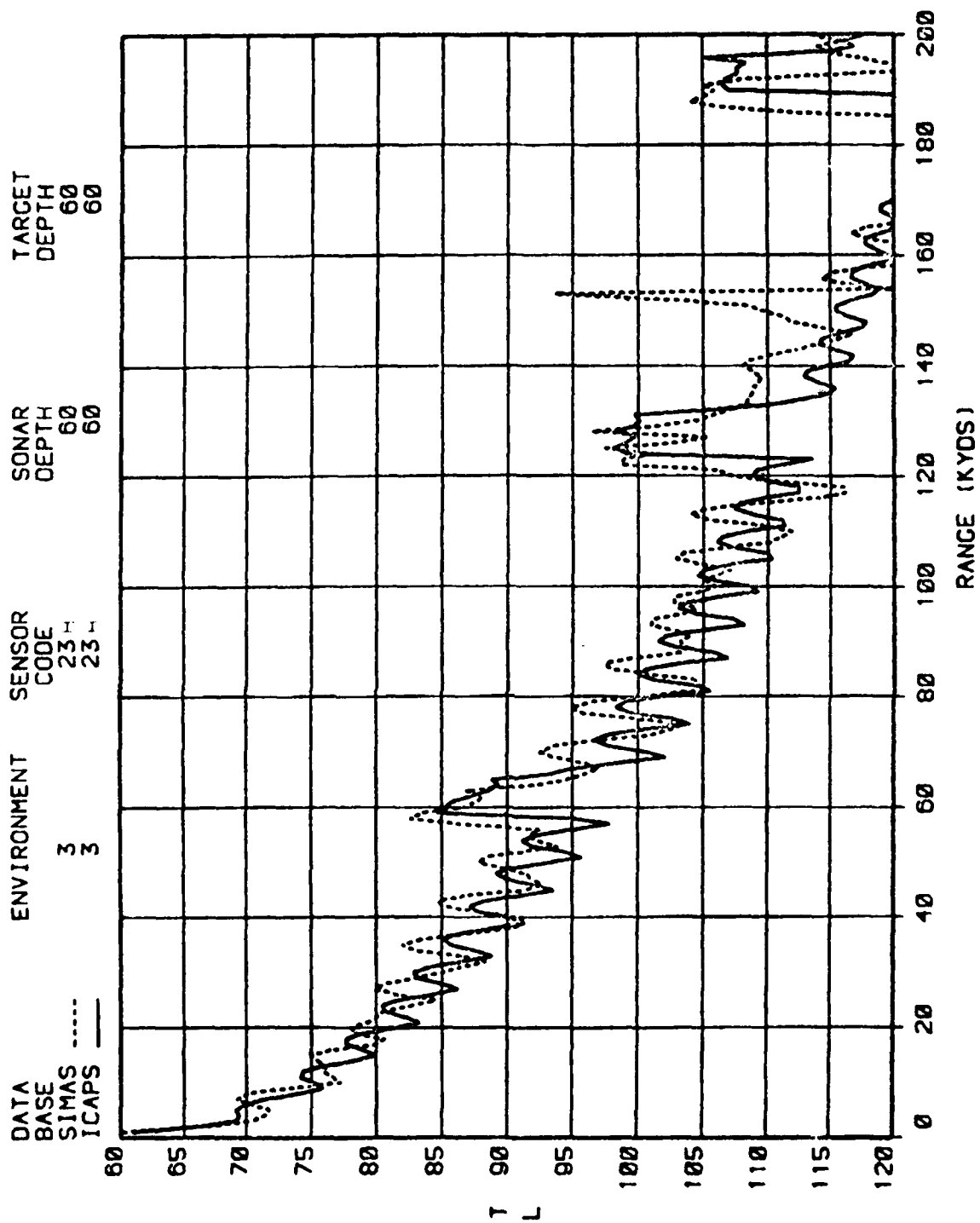


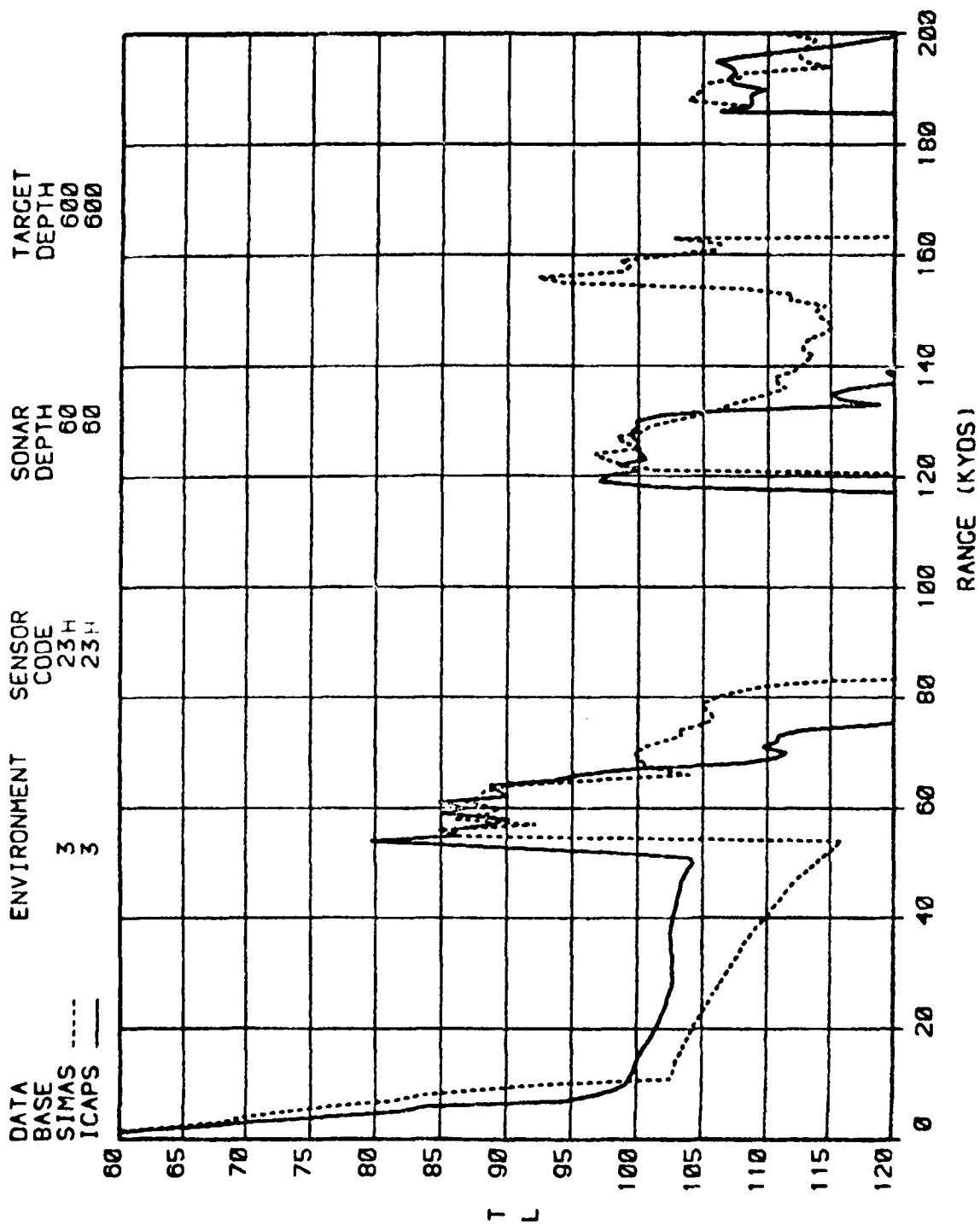


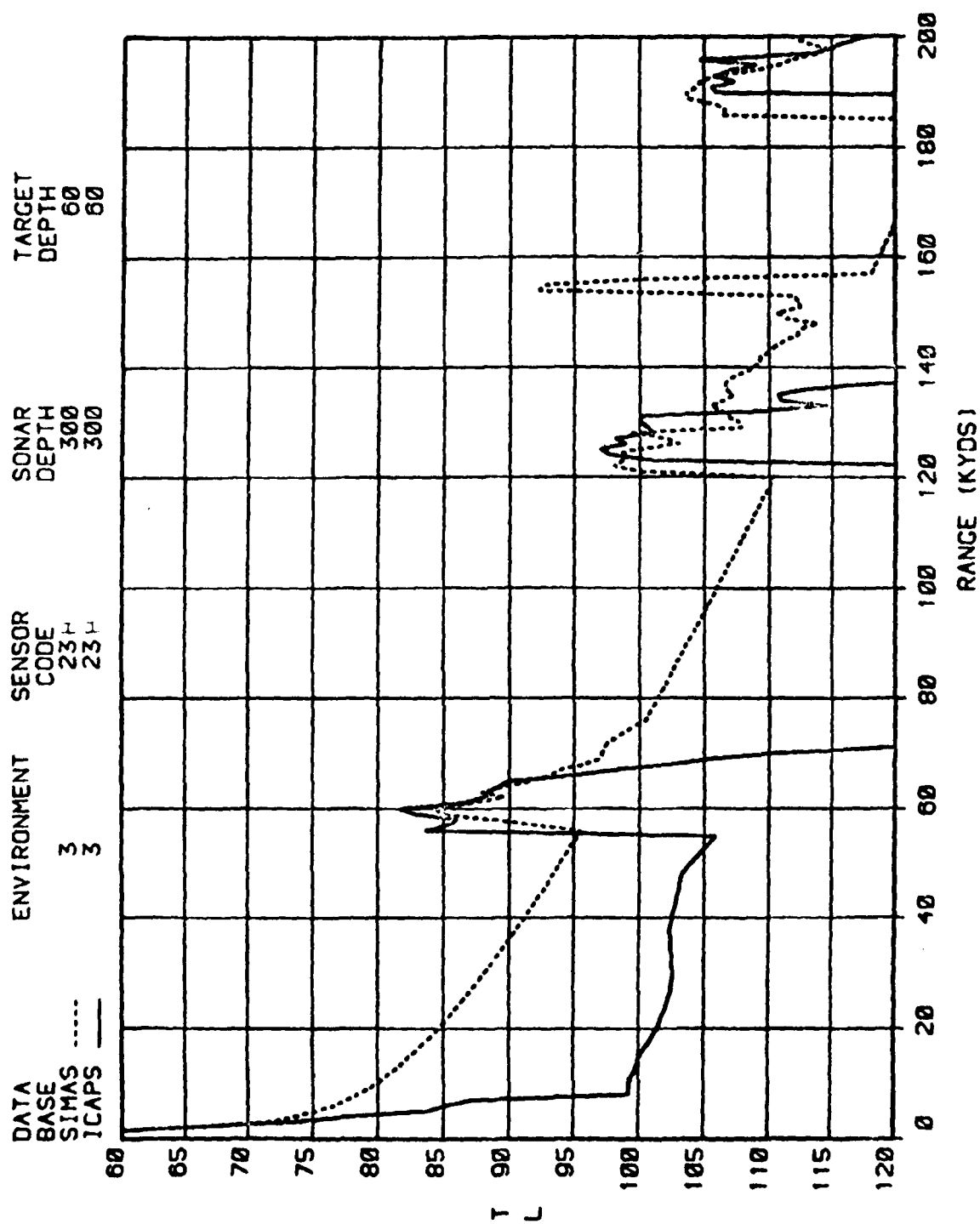


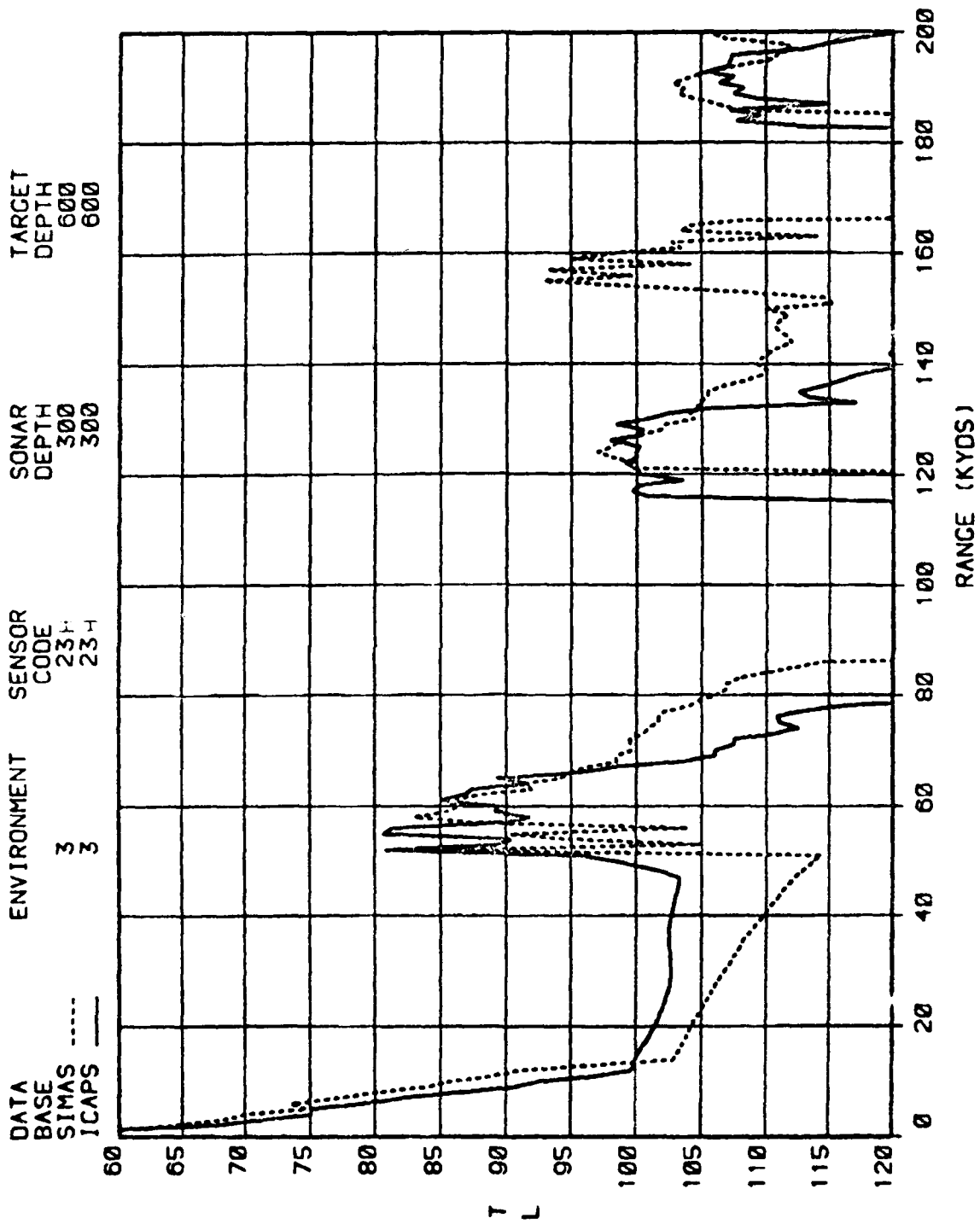


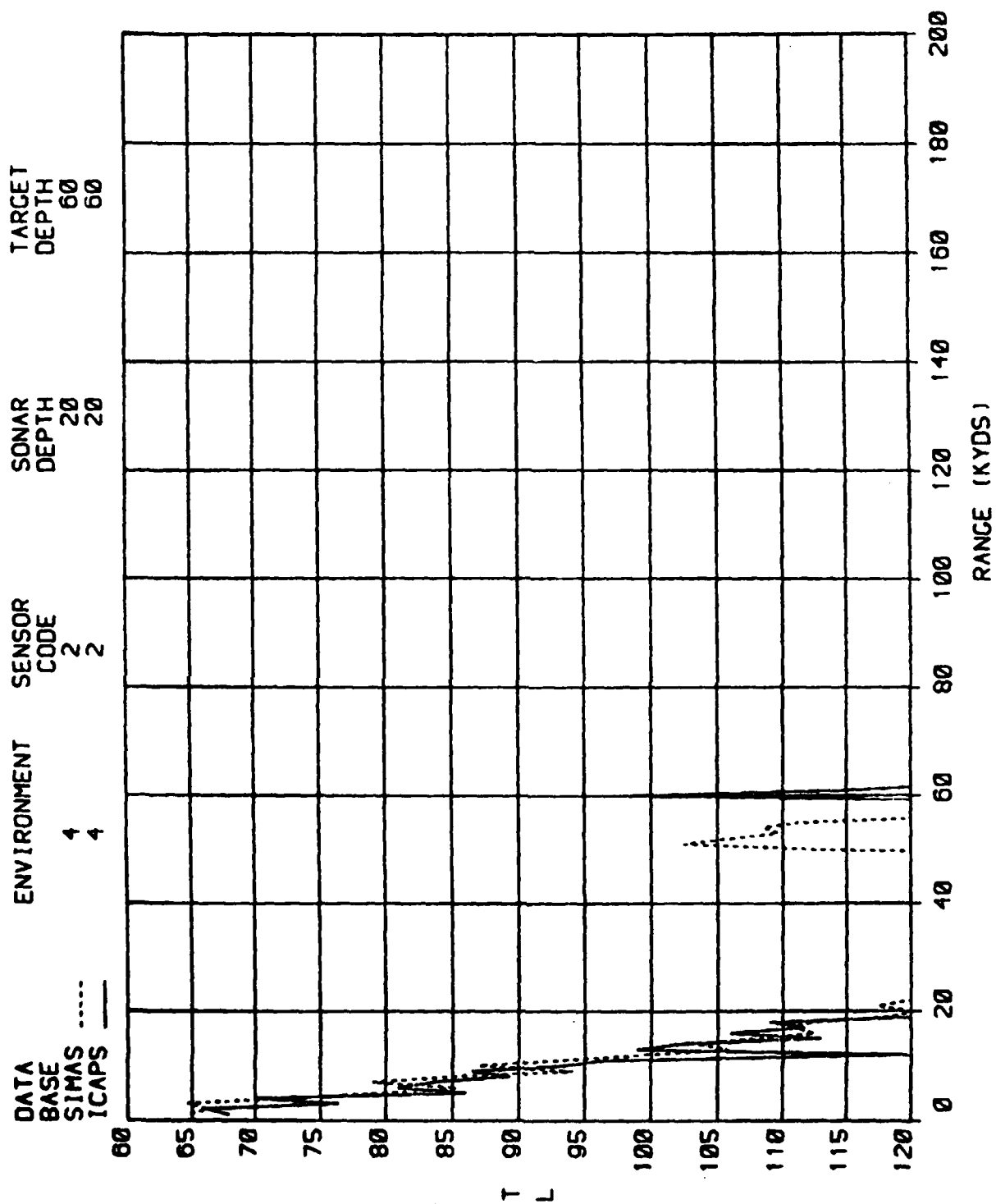


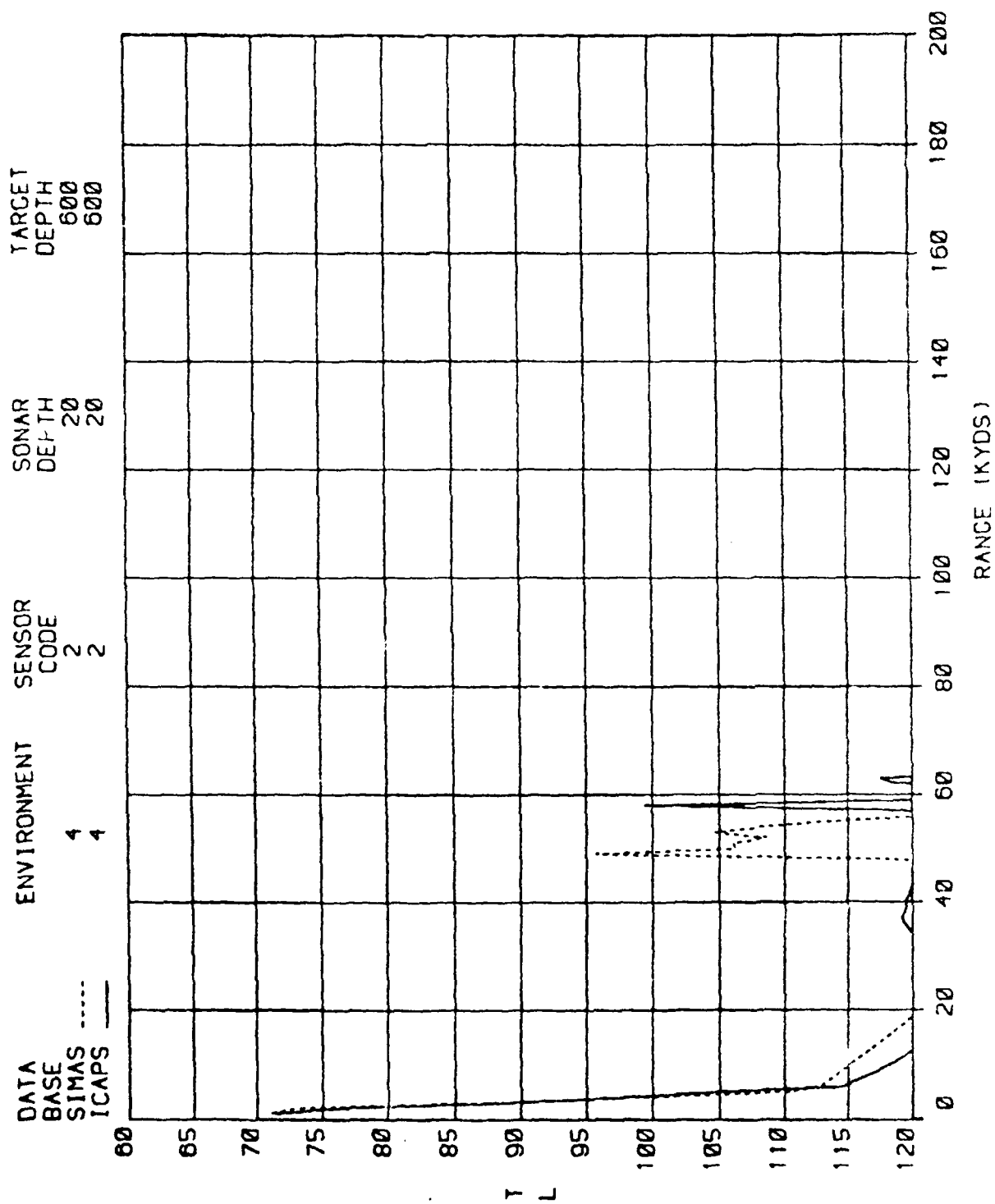


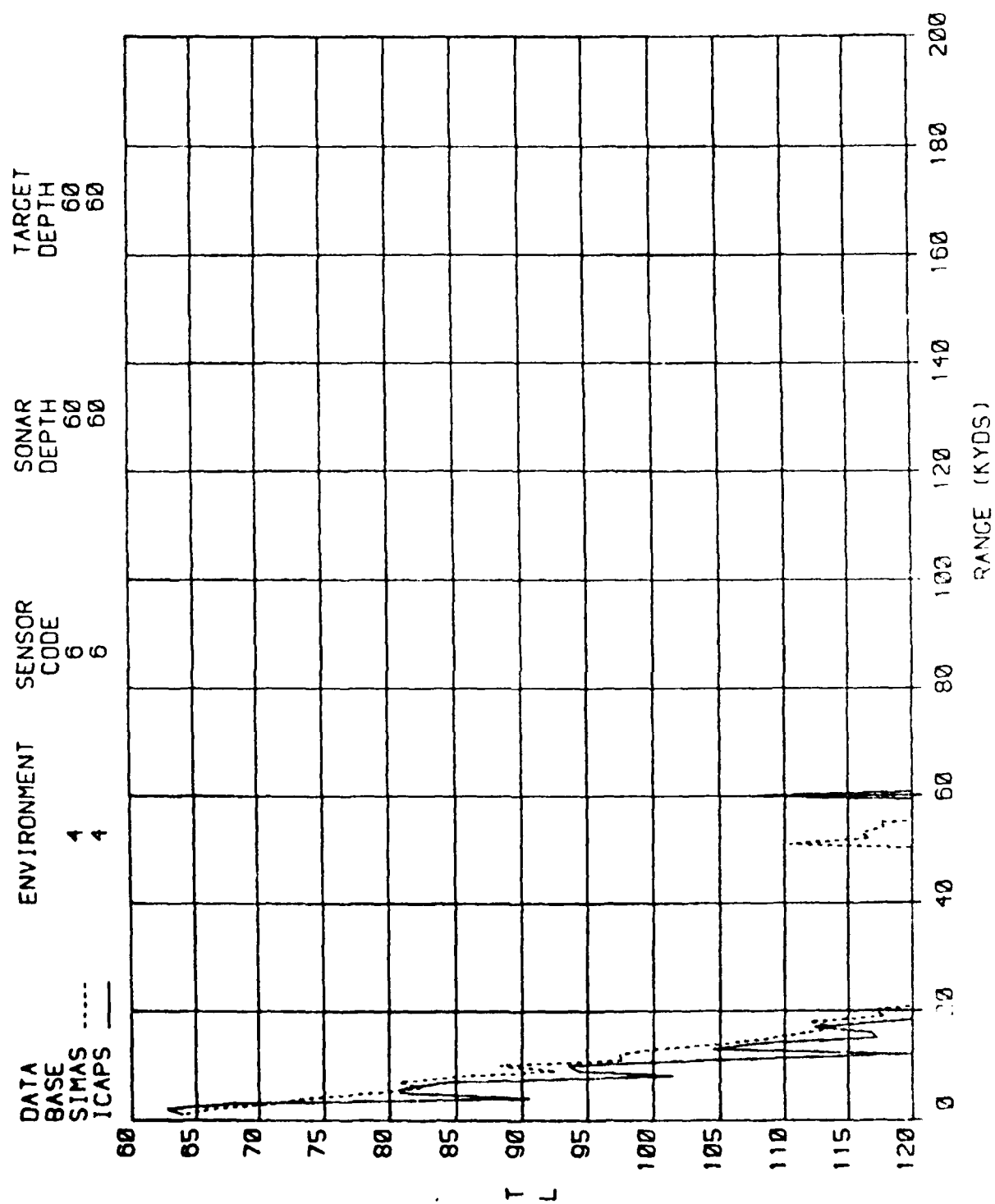


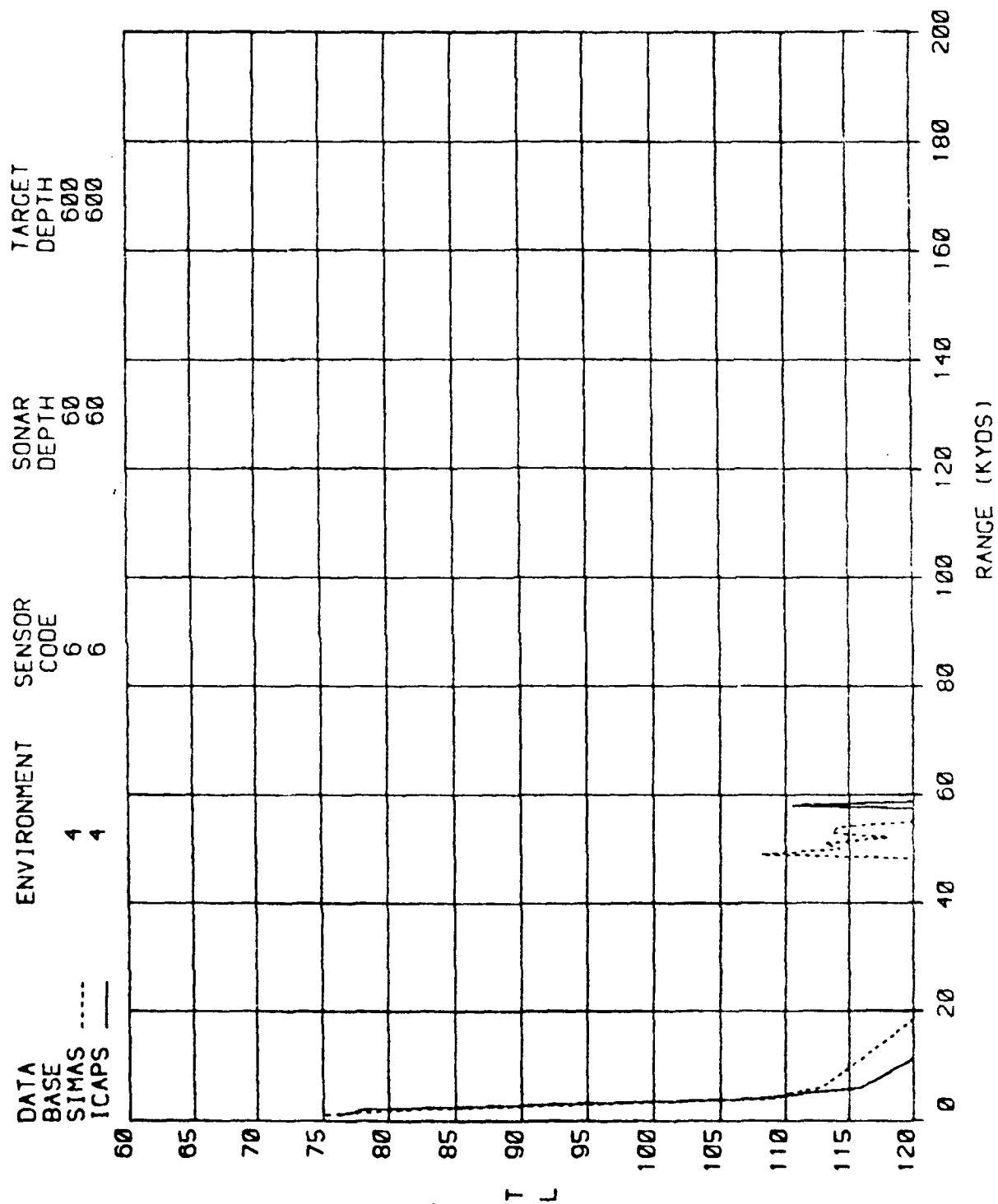


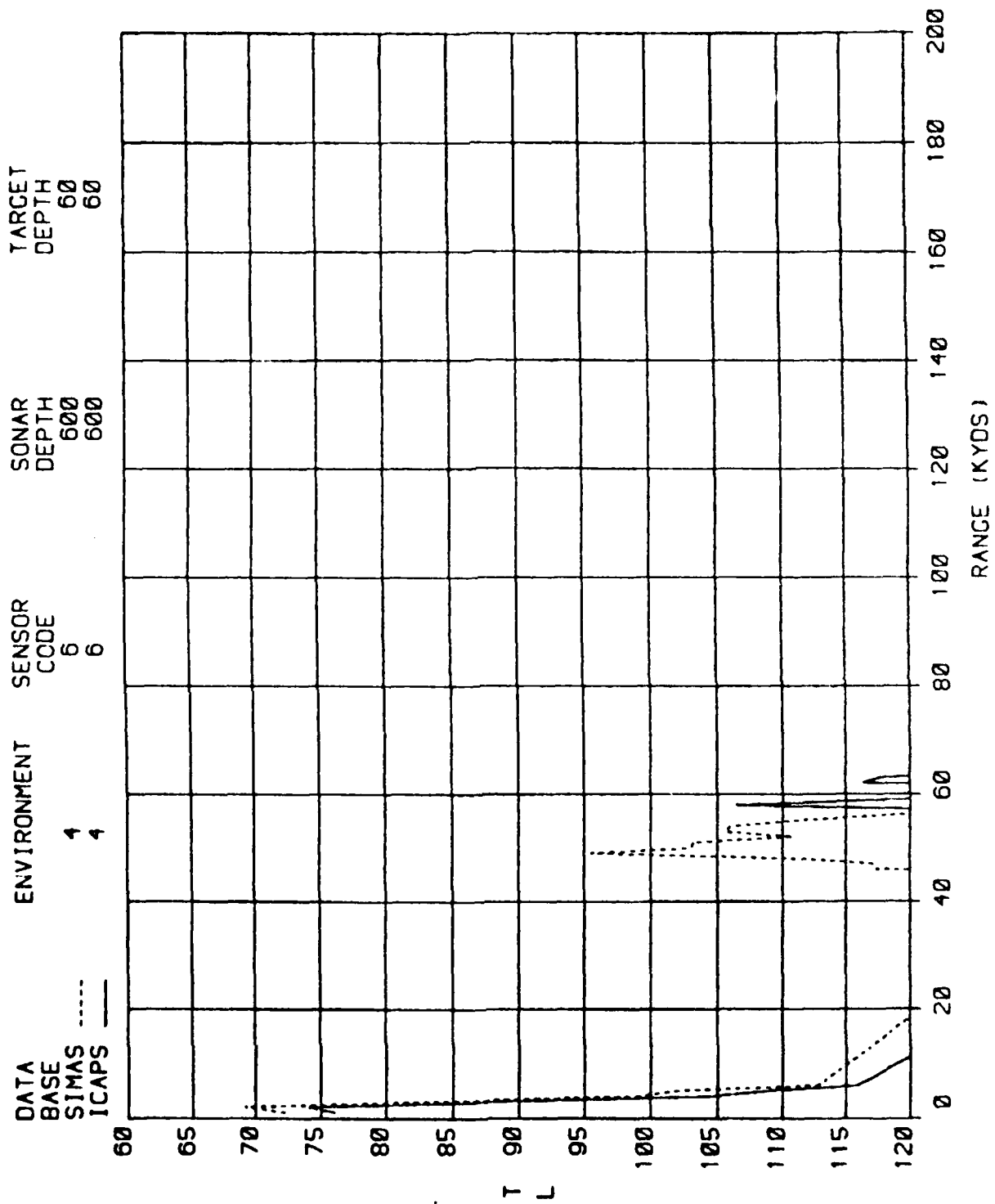


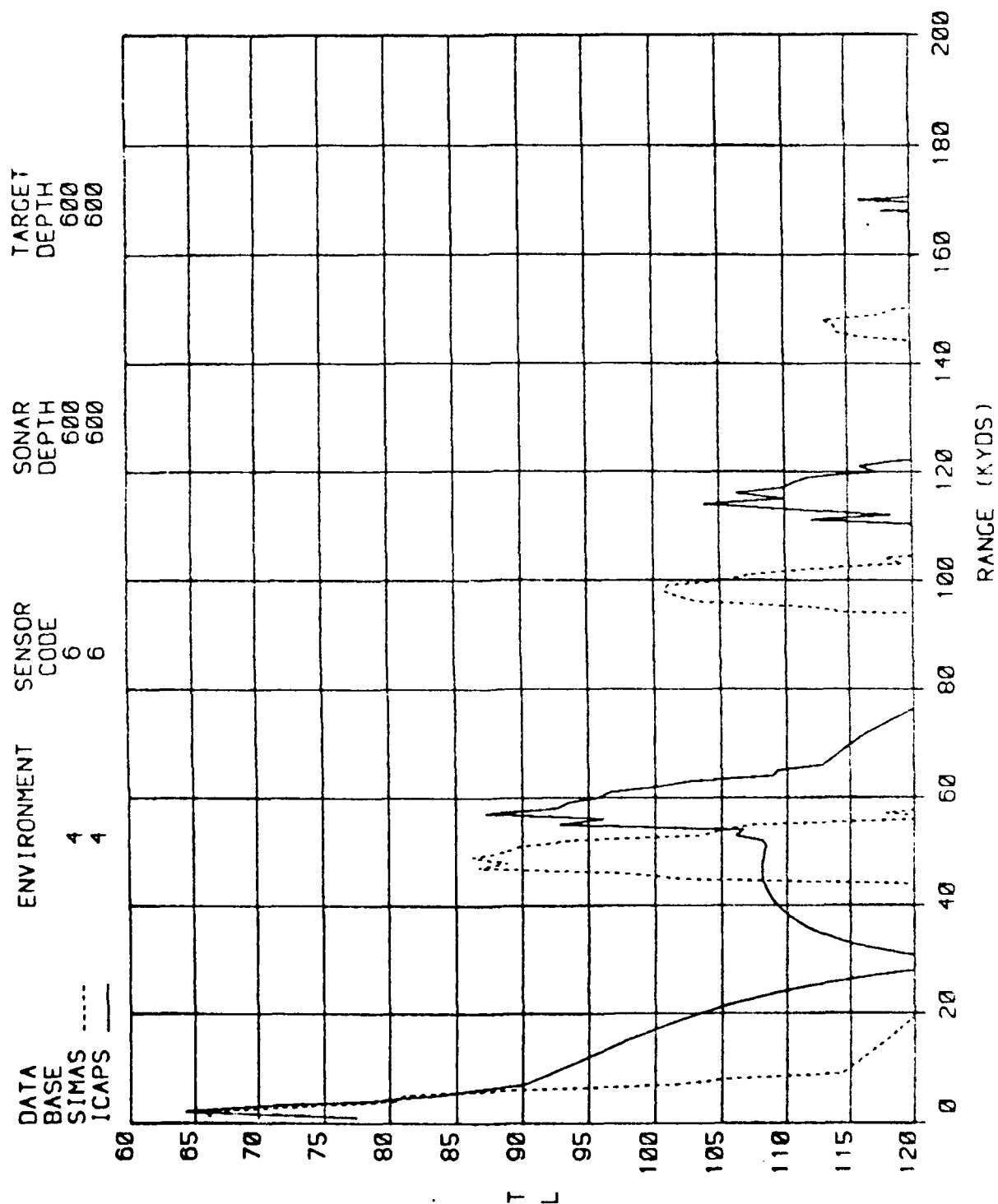


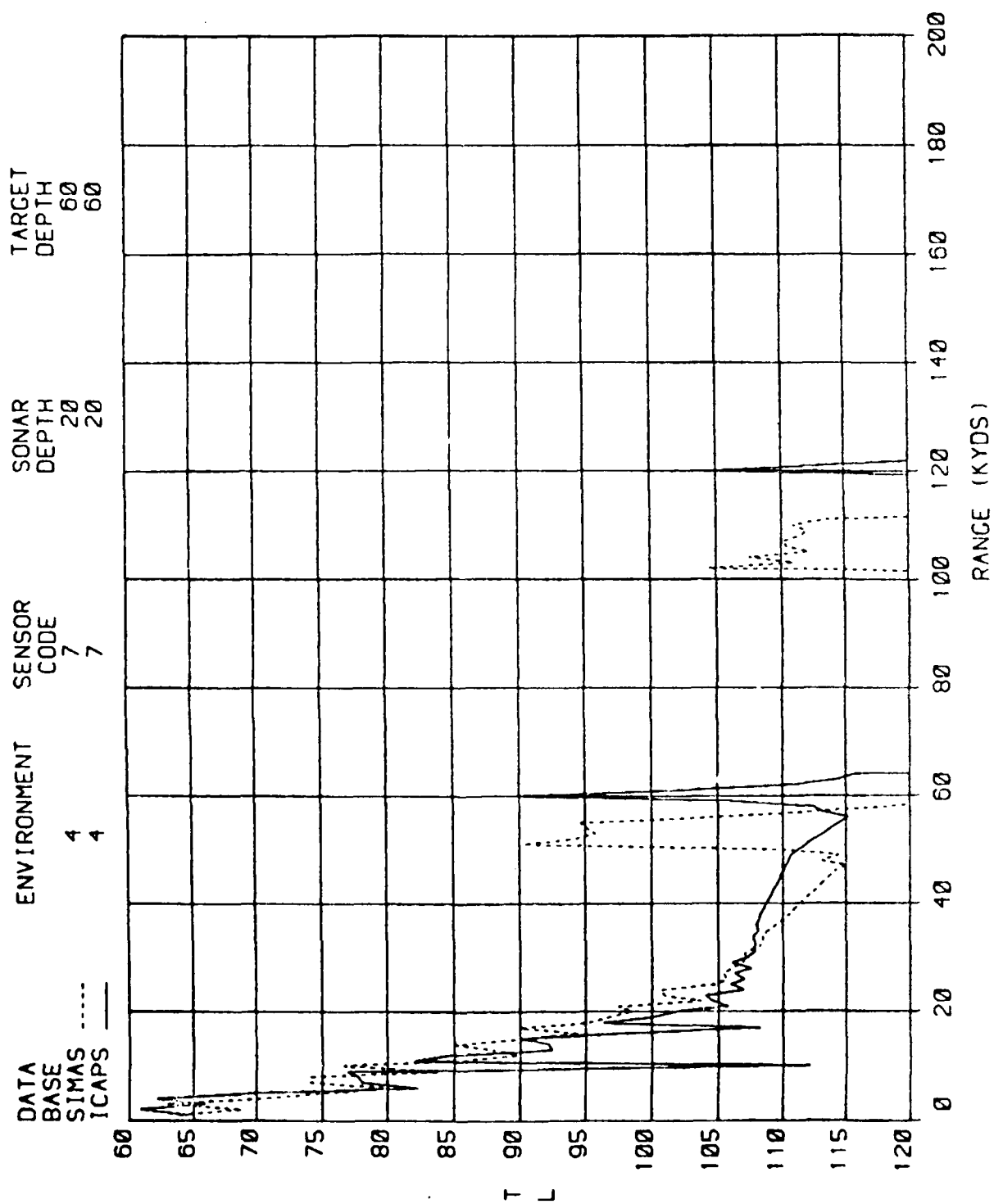












AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON

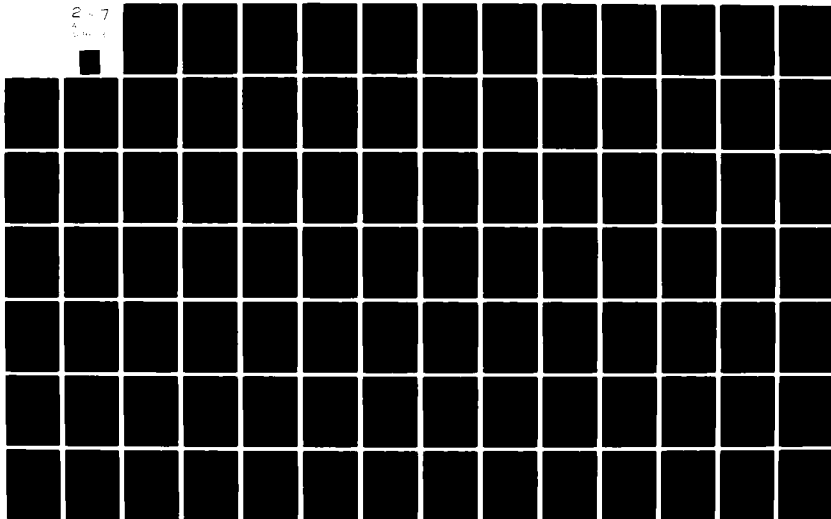
UNCLASSIFIED

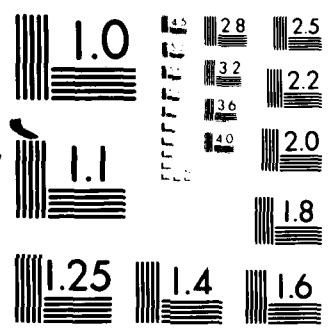
NORDA-TN-73-VOL-2

NL

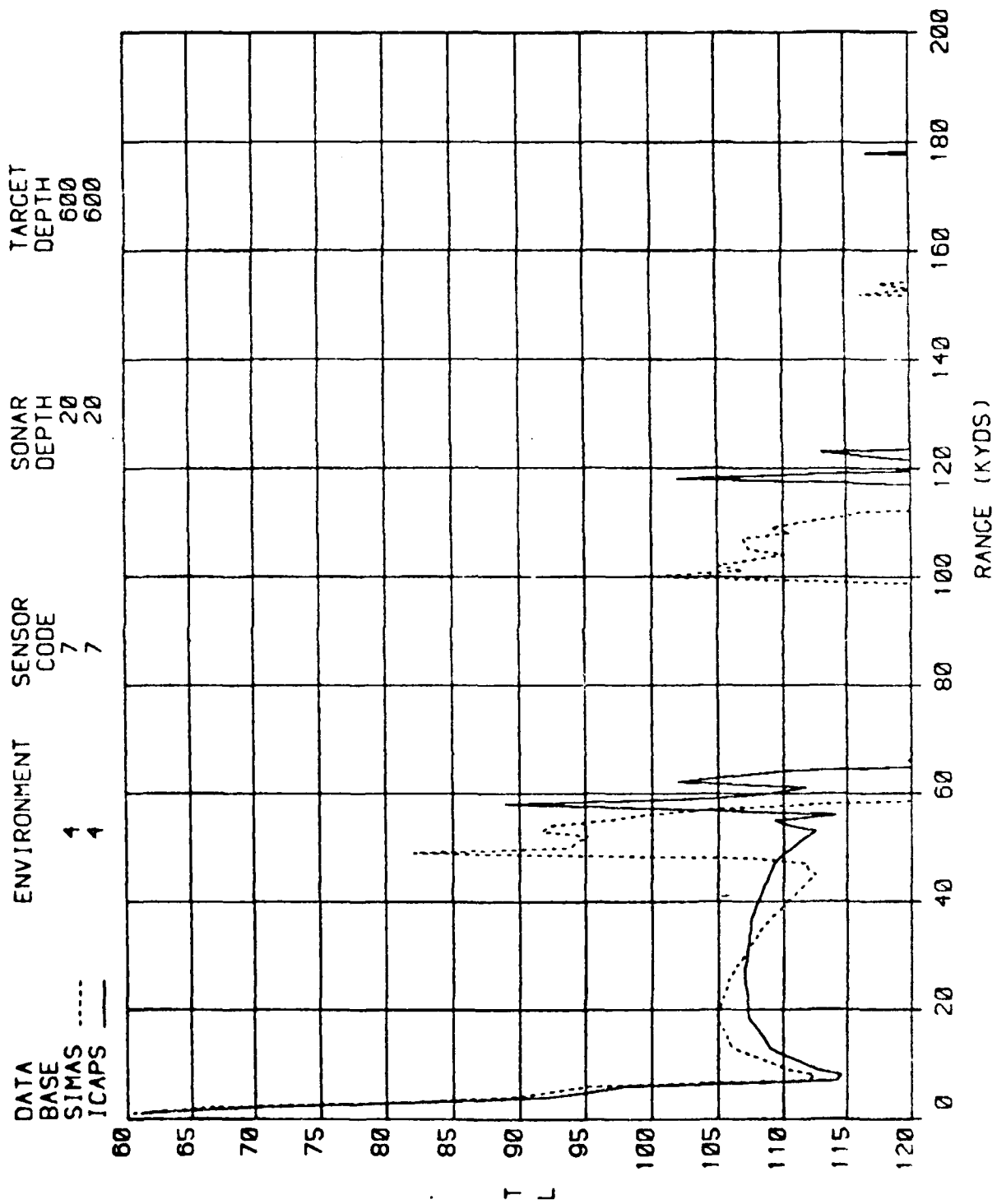
2-7

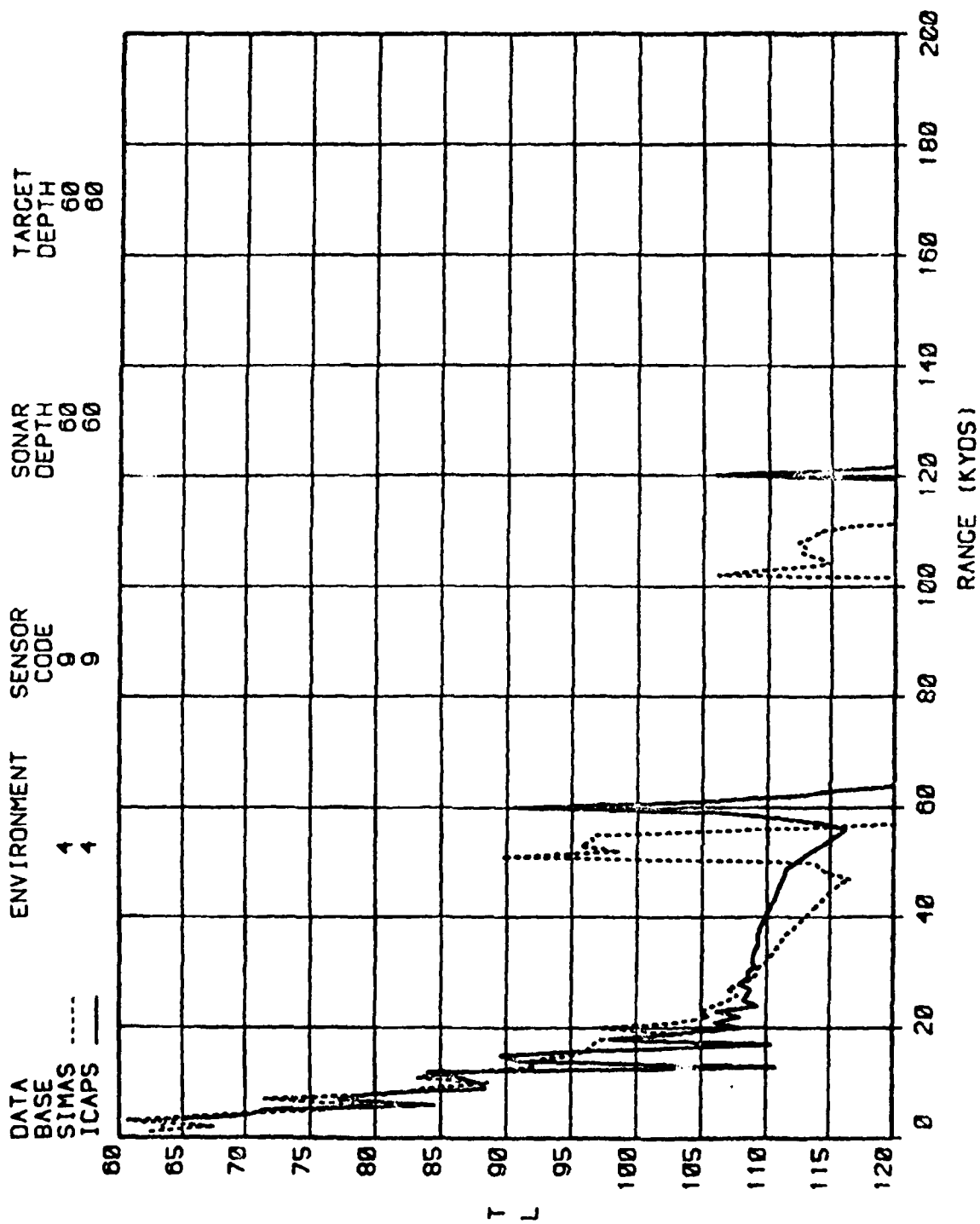
1-1

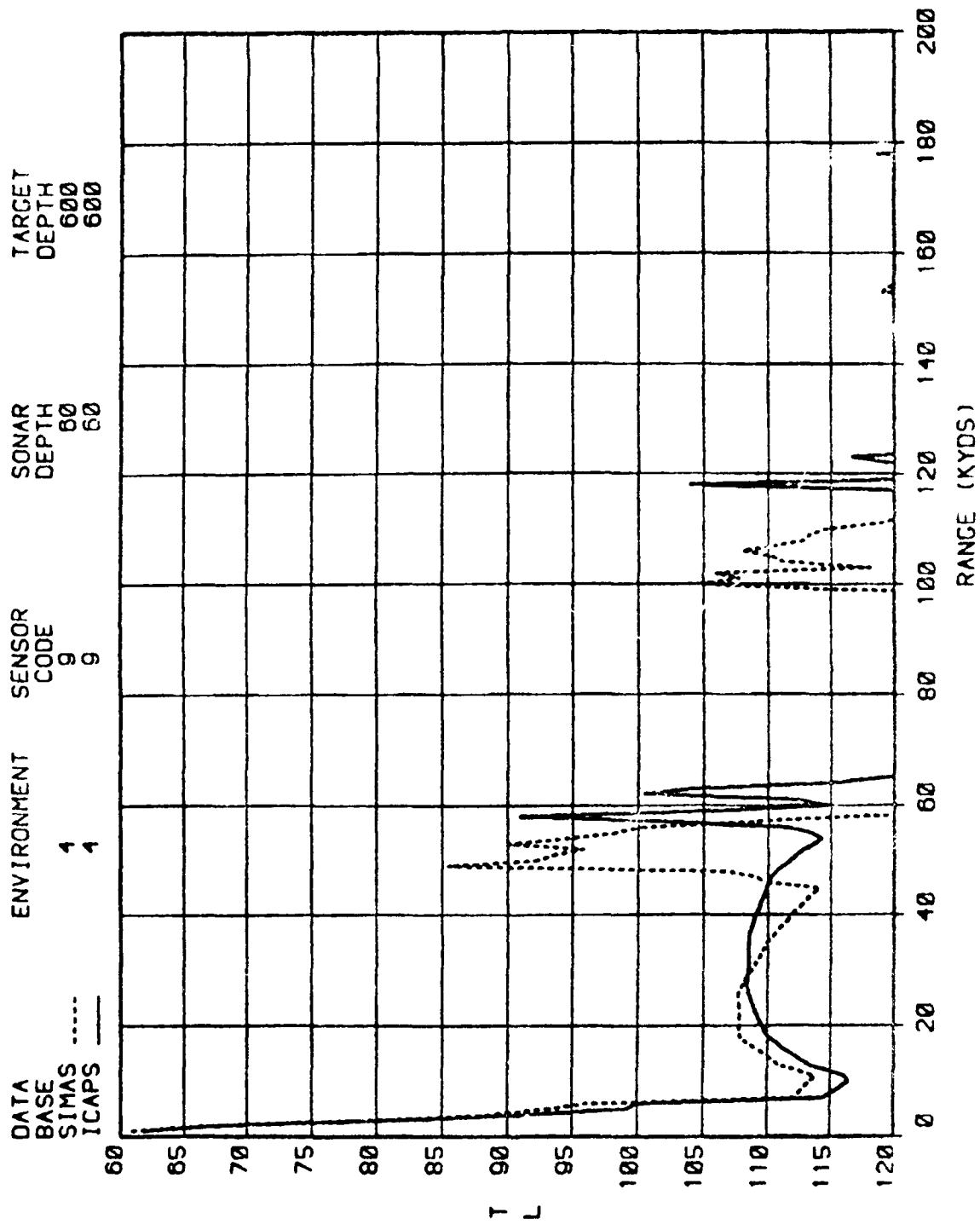


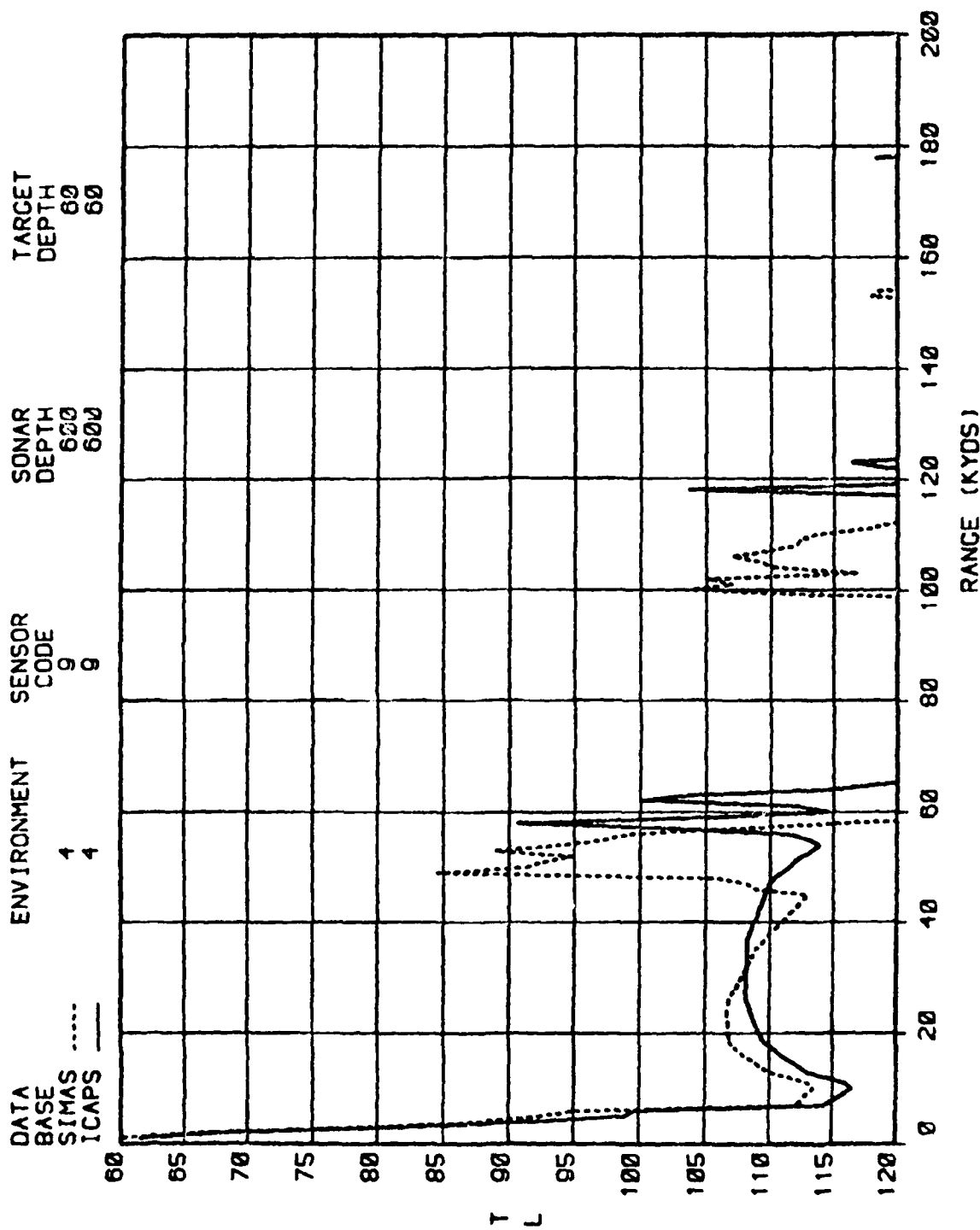


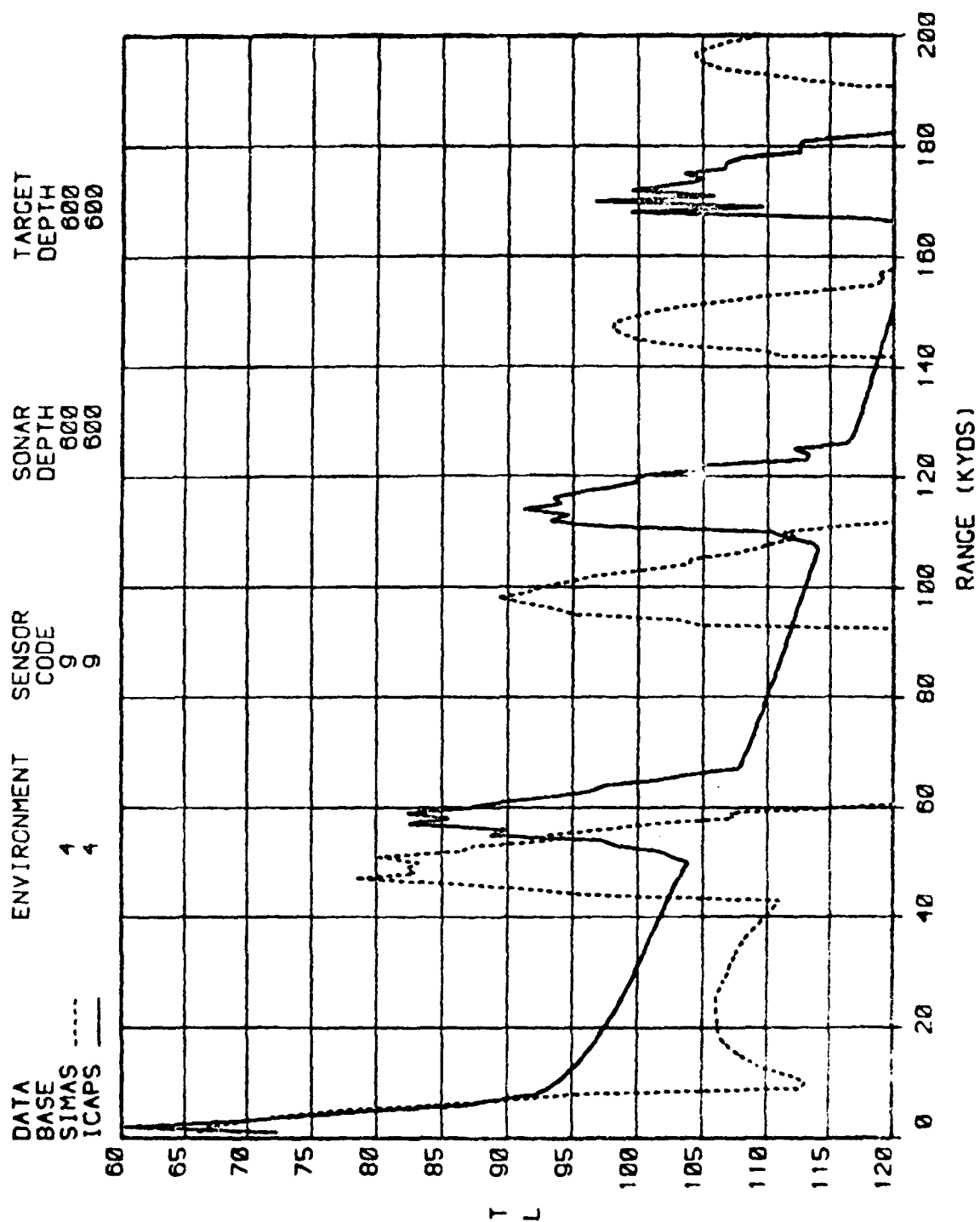
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

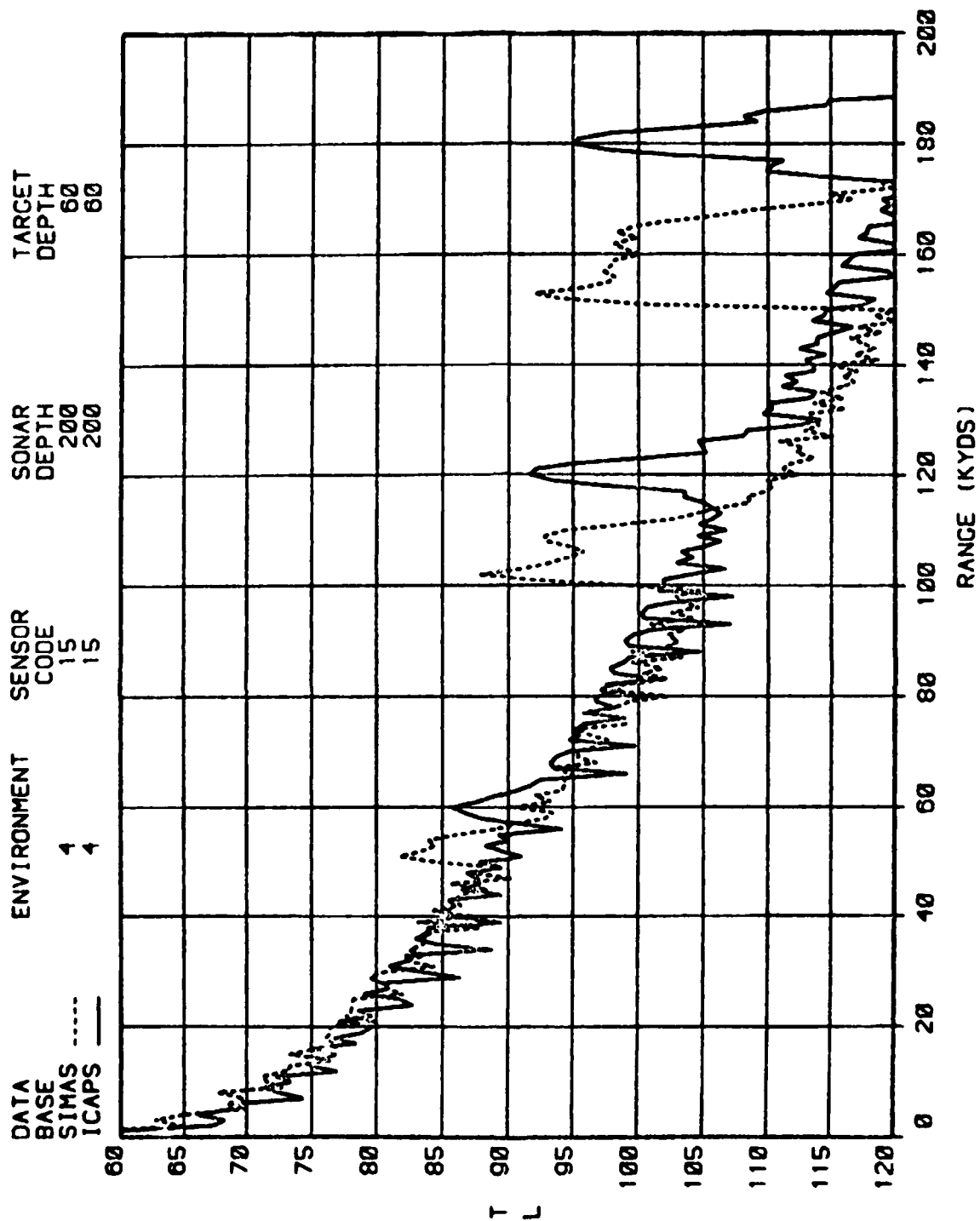


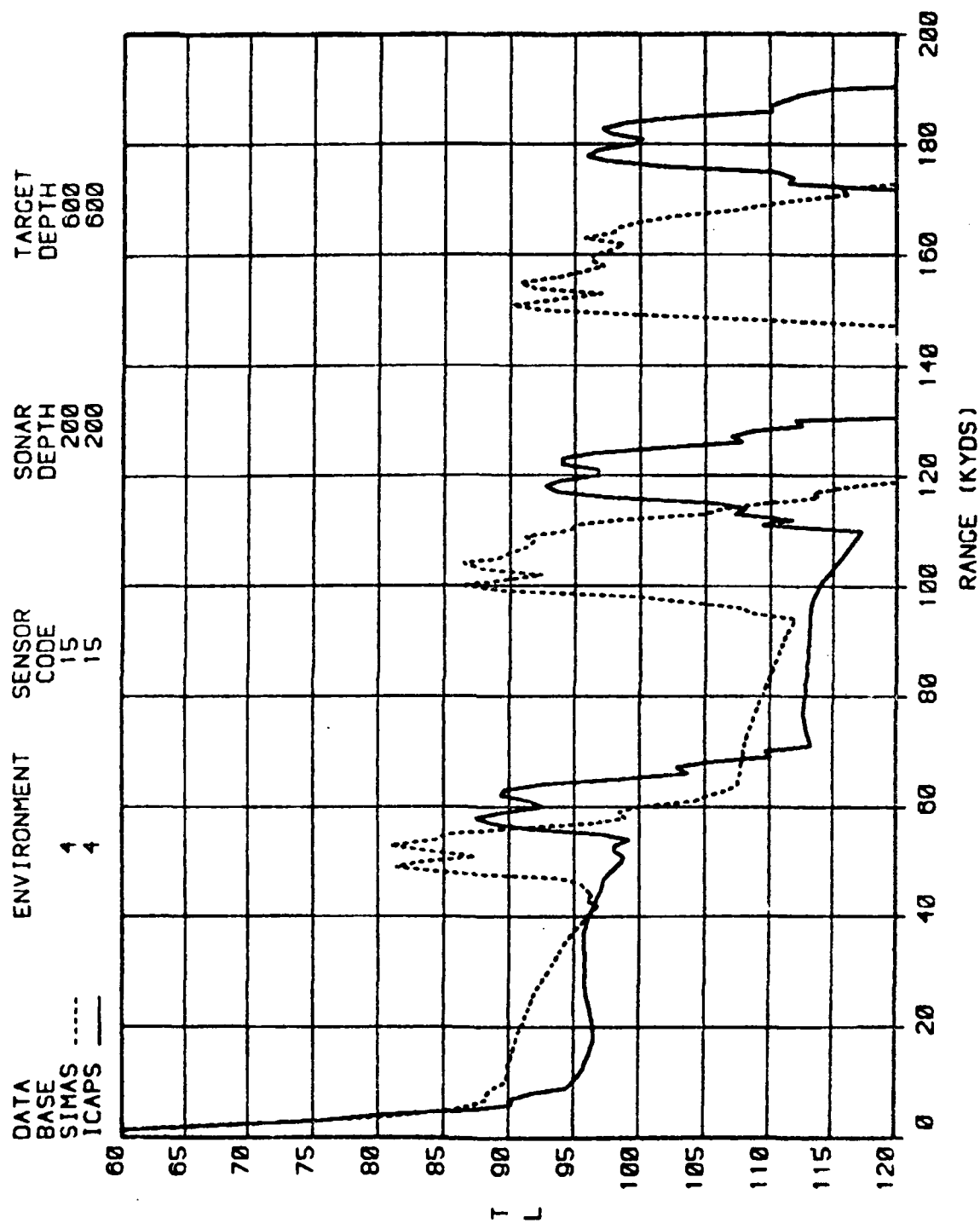


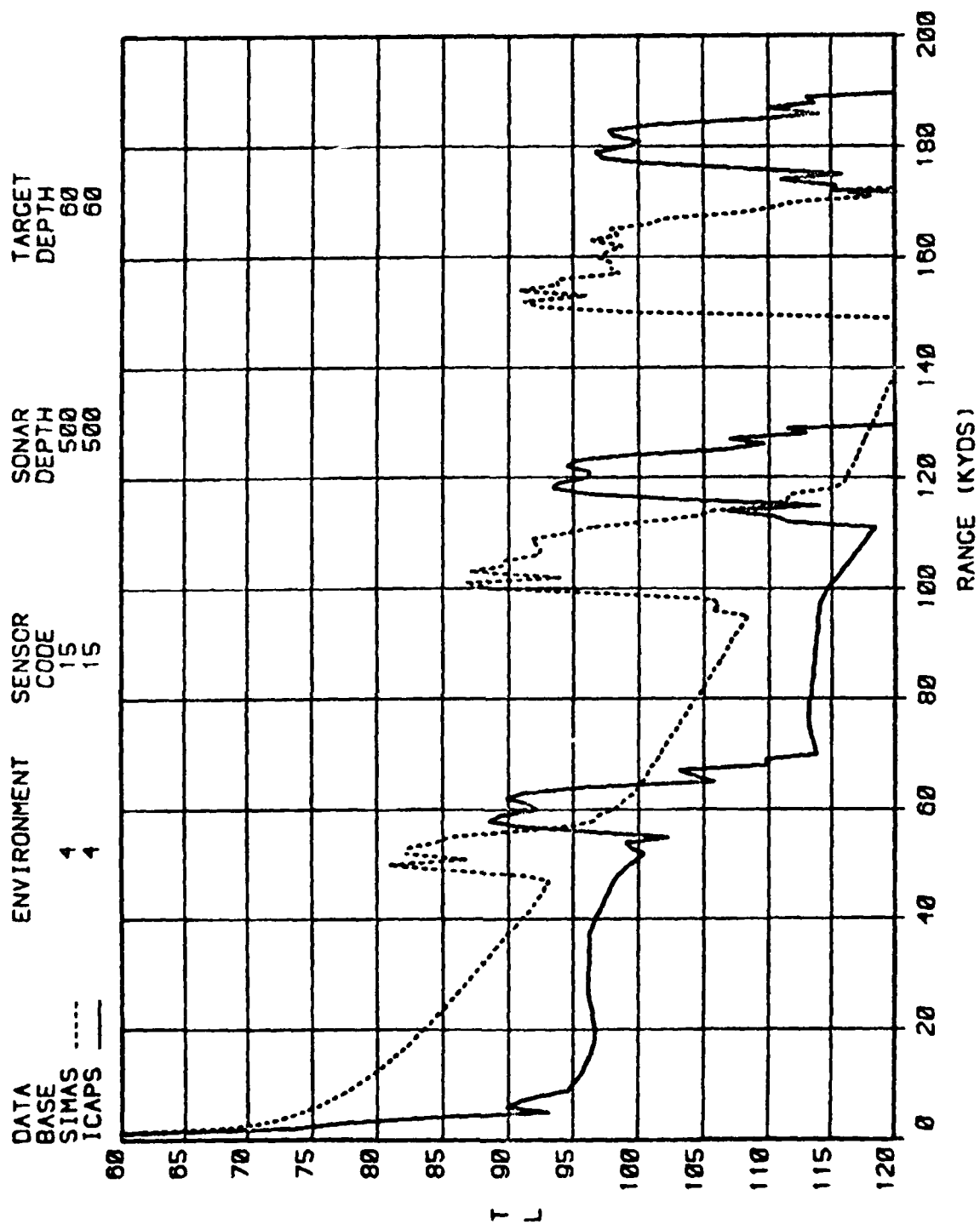


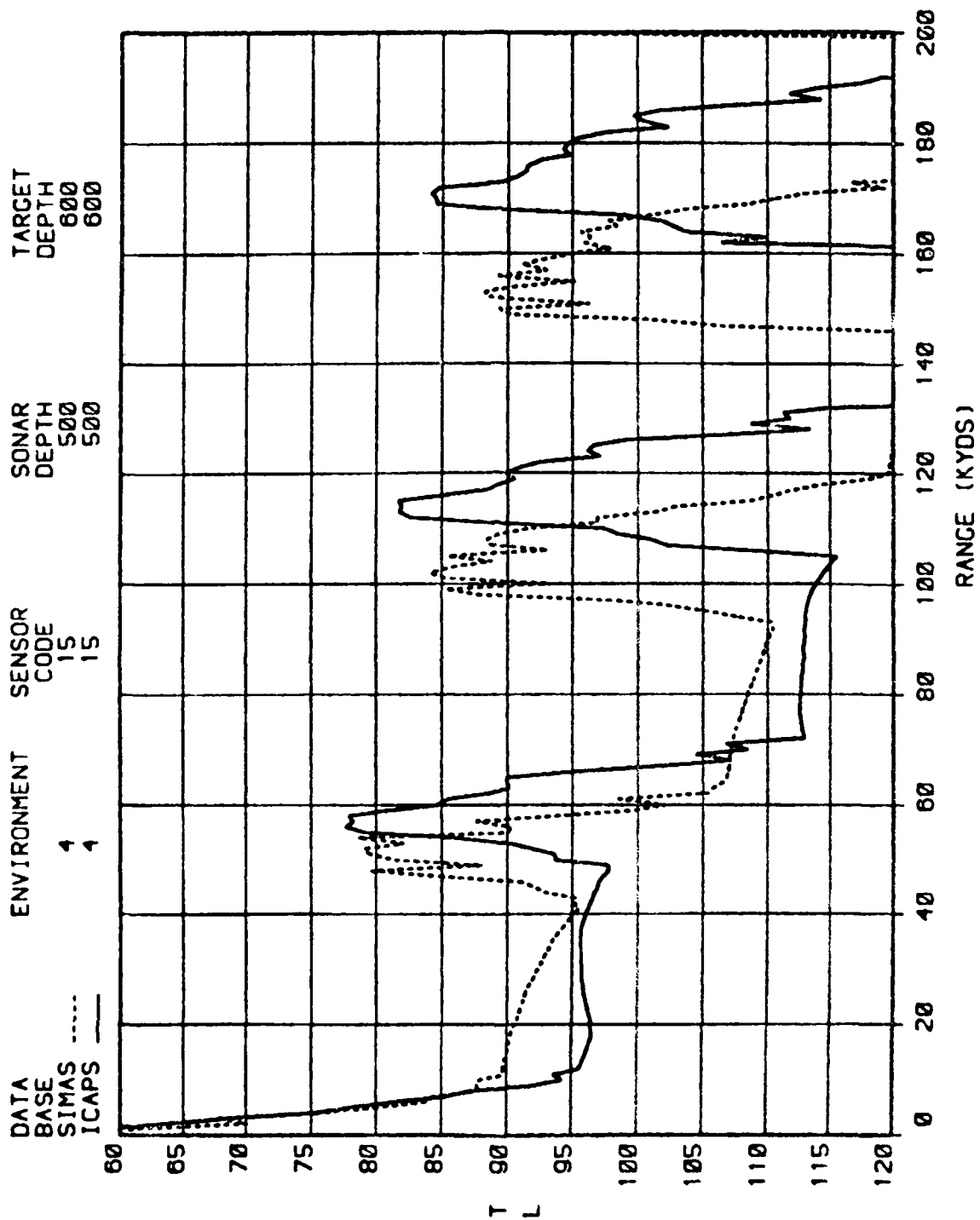


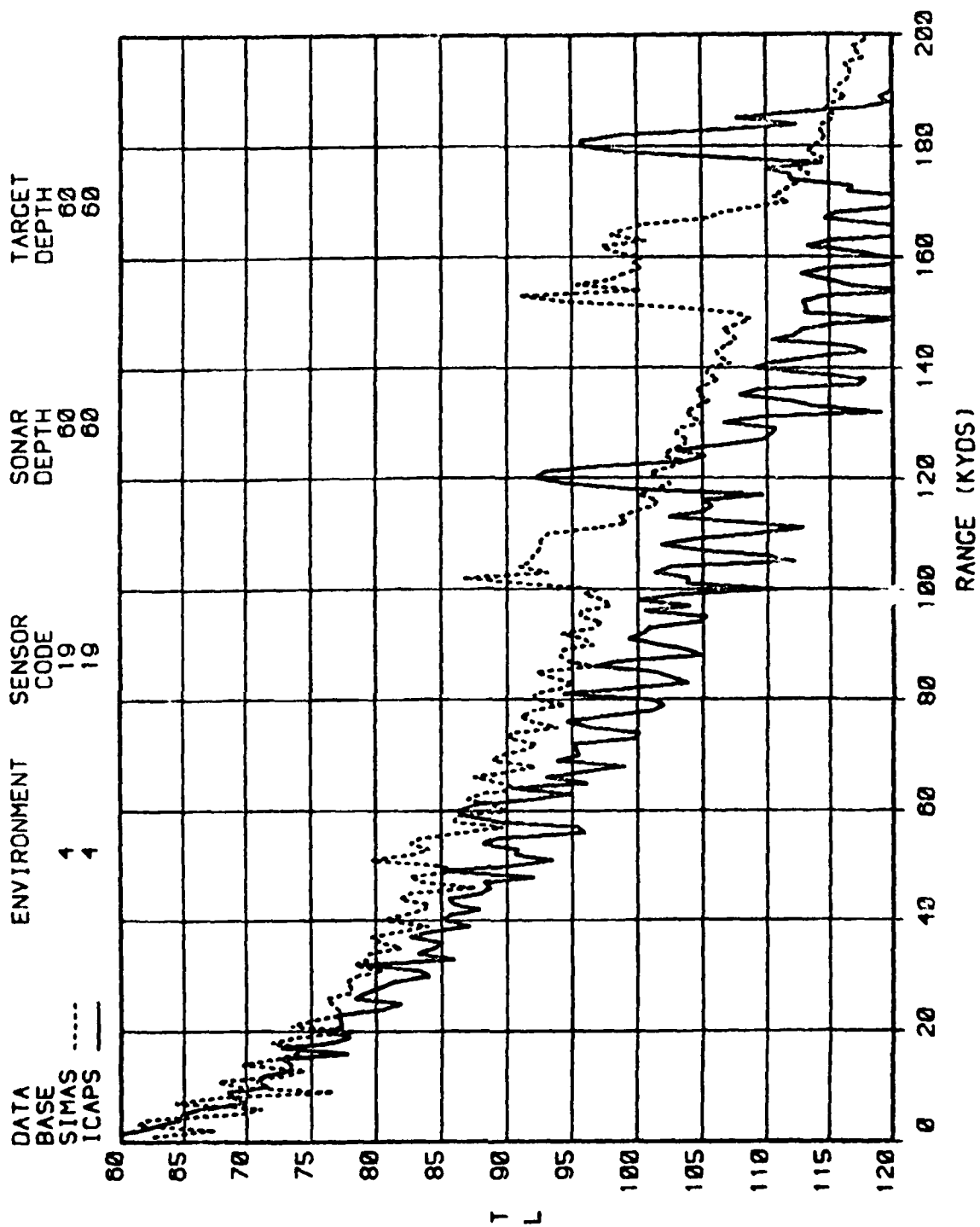


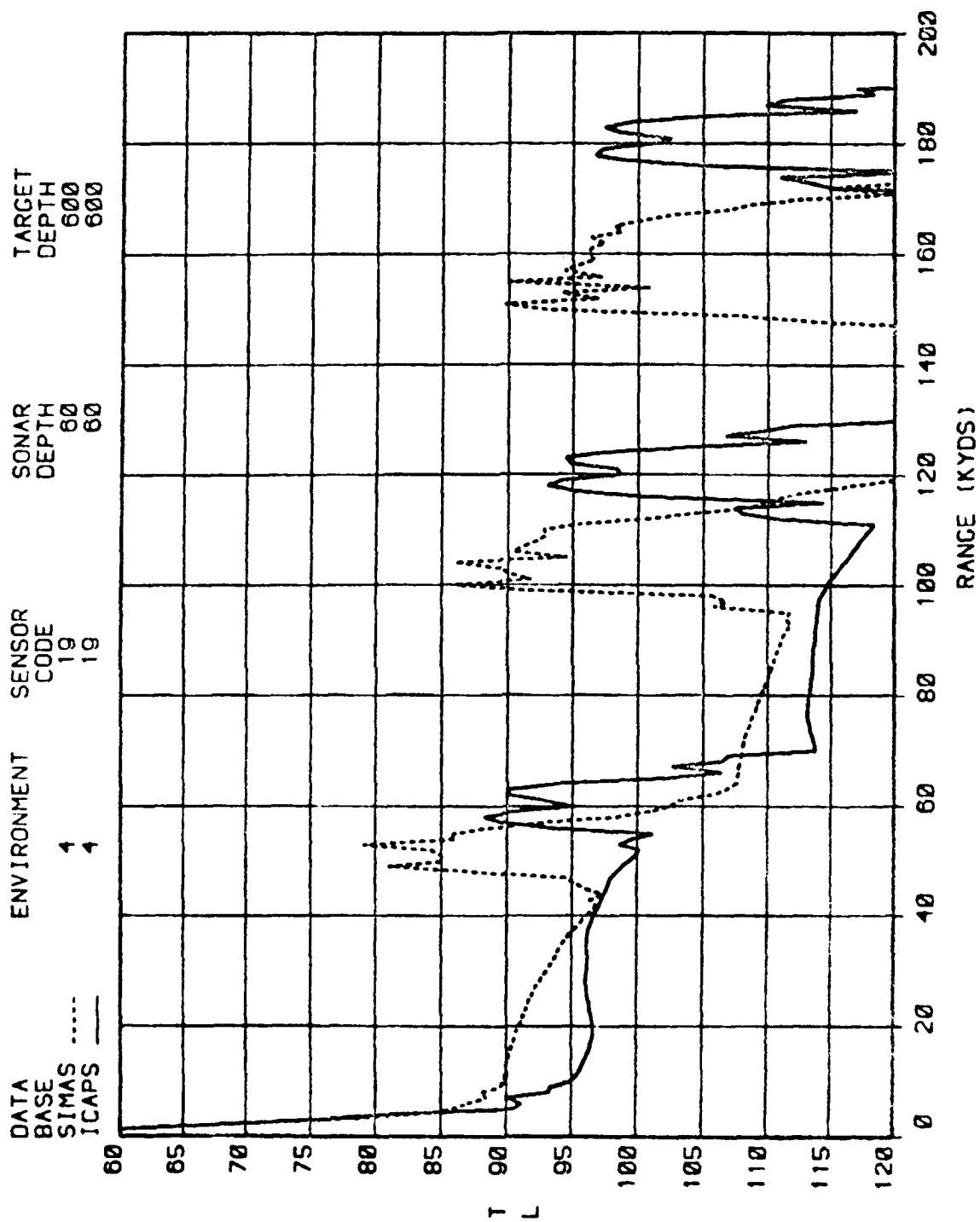


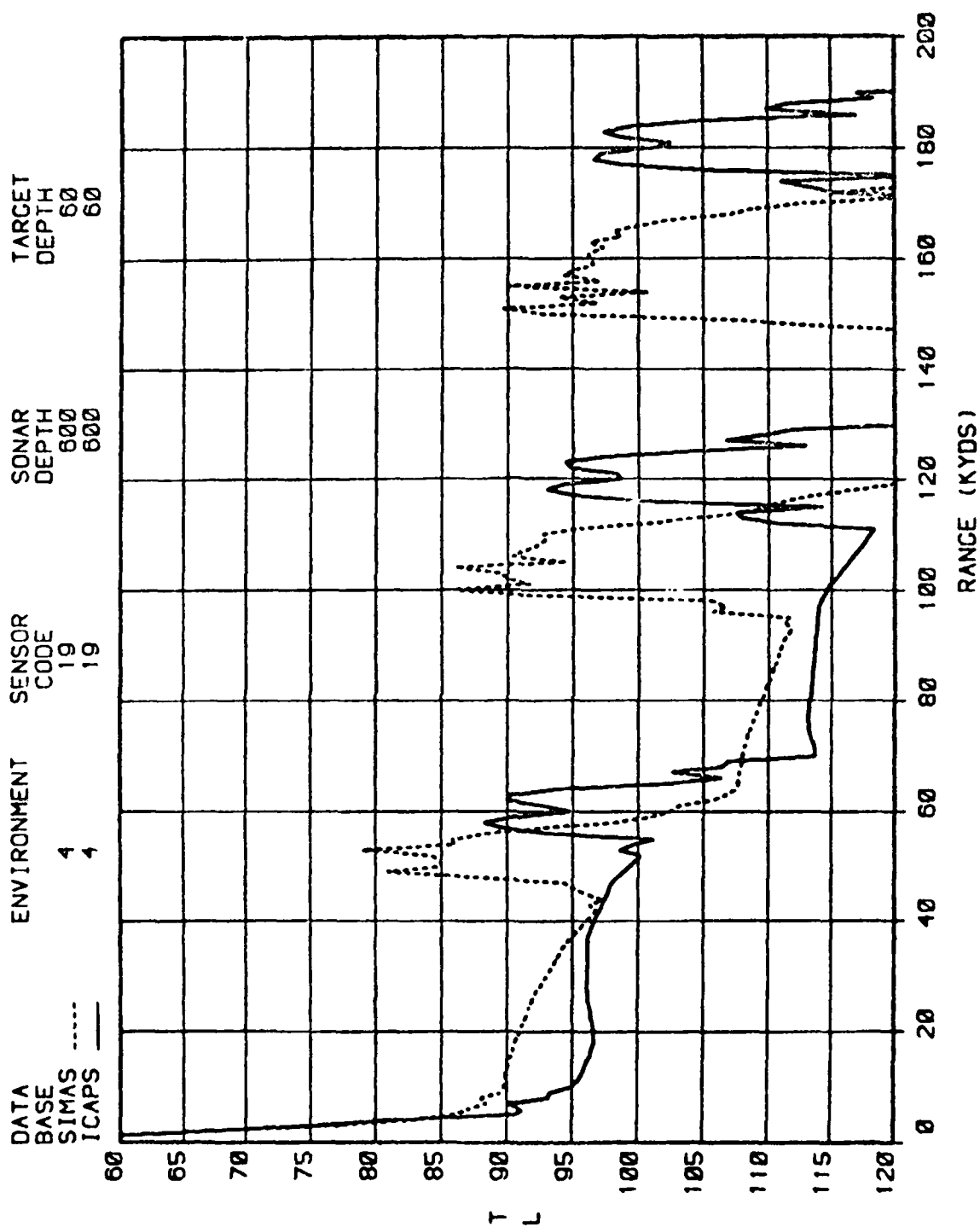


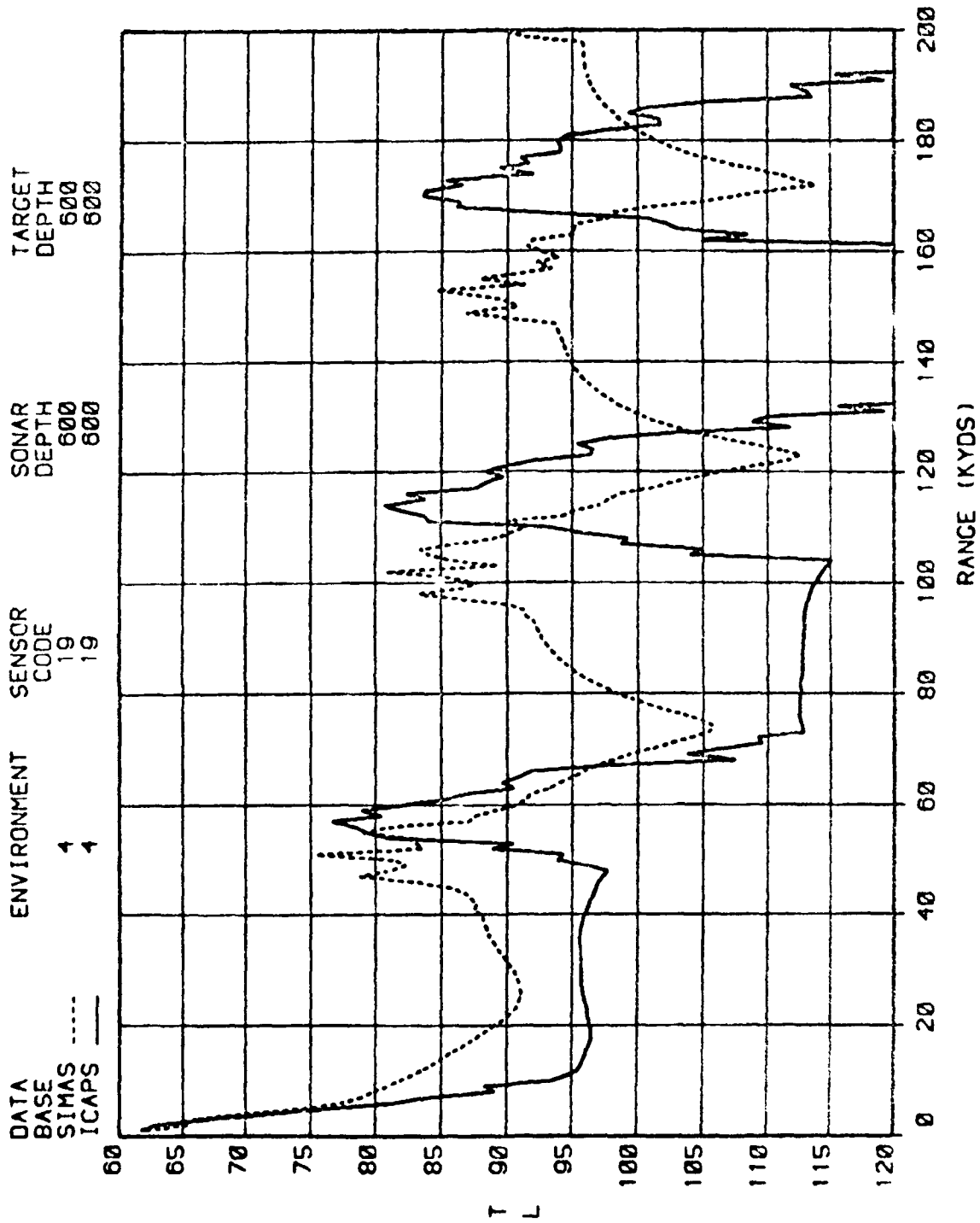


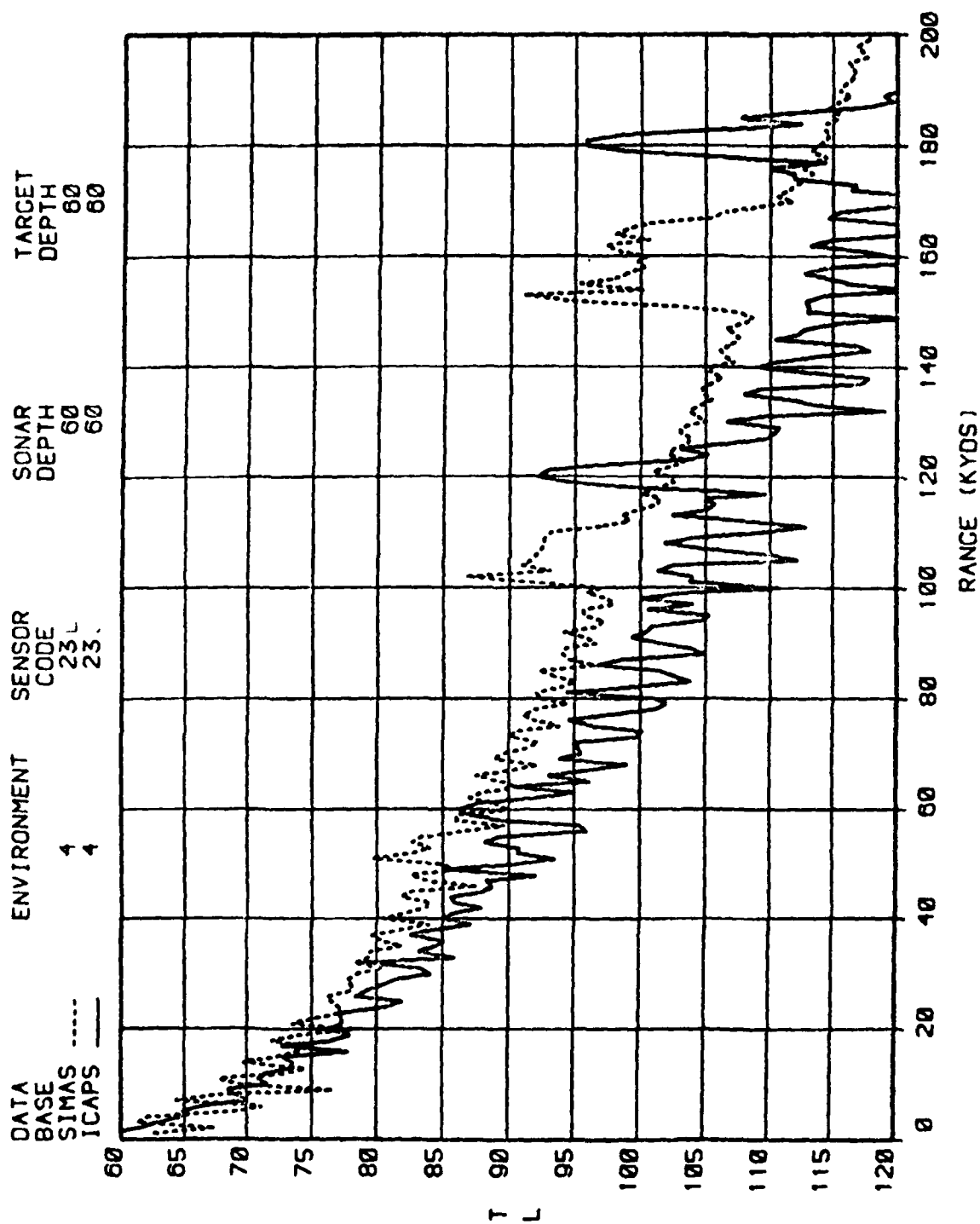


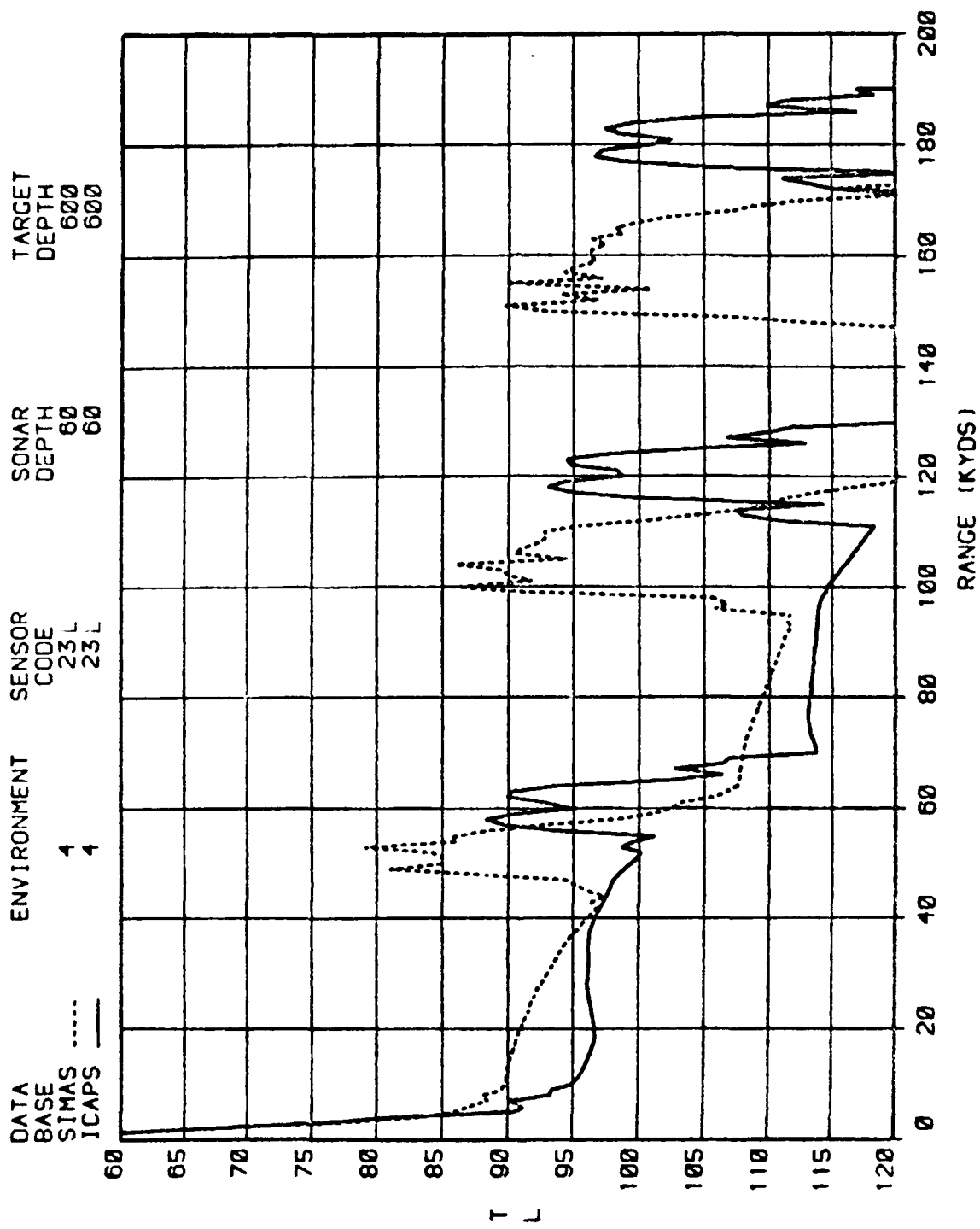


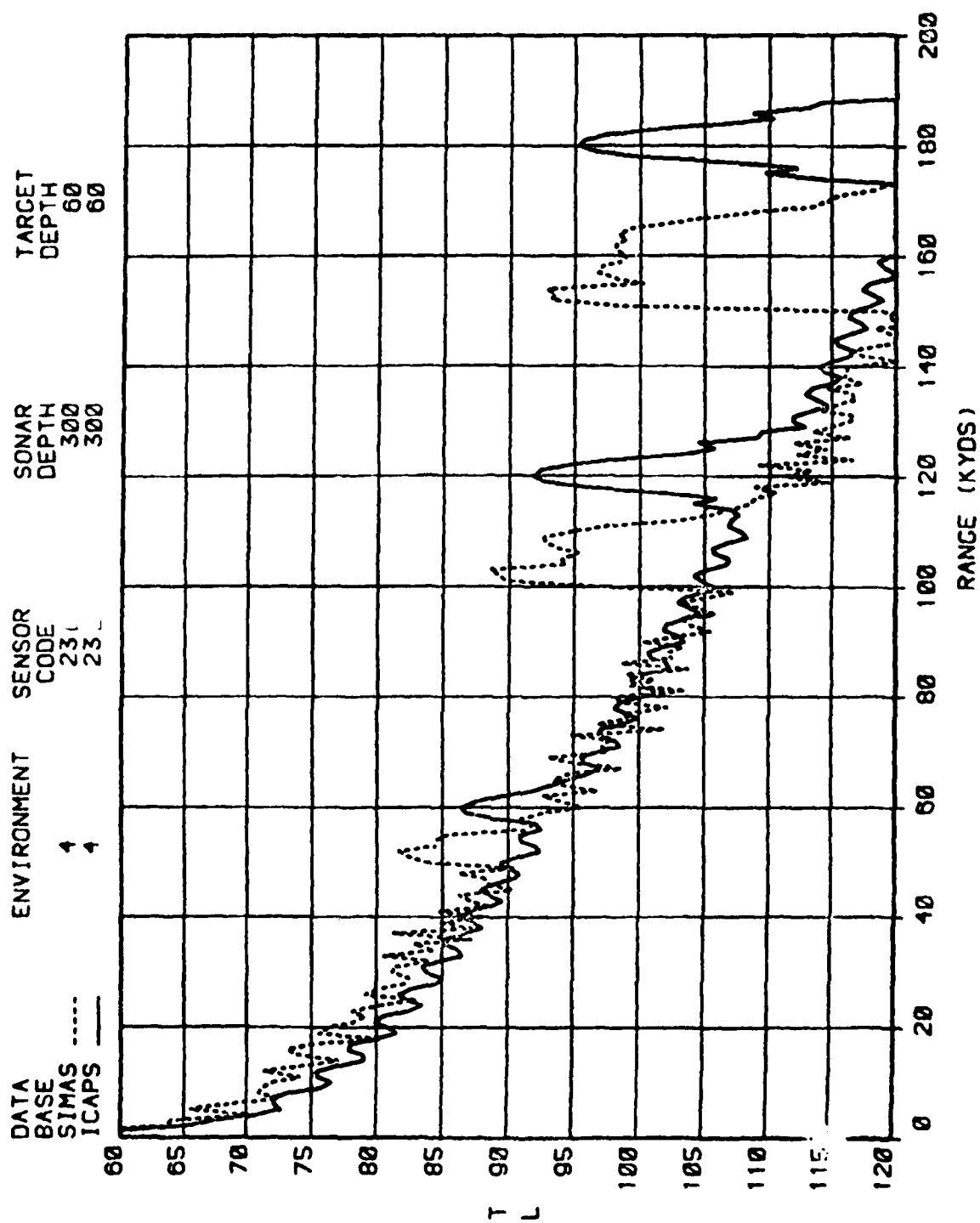


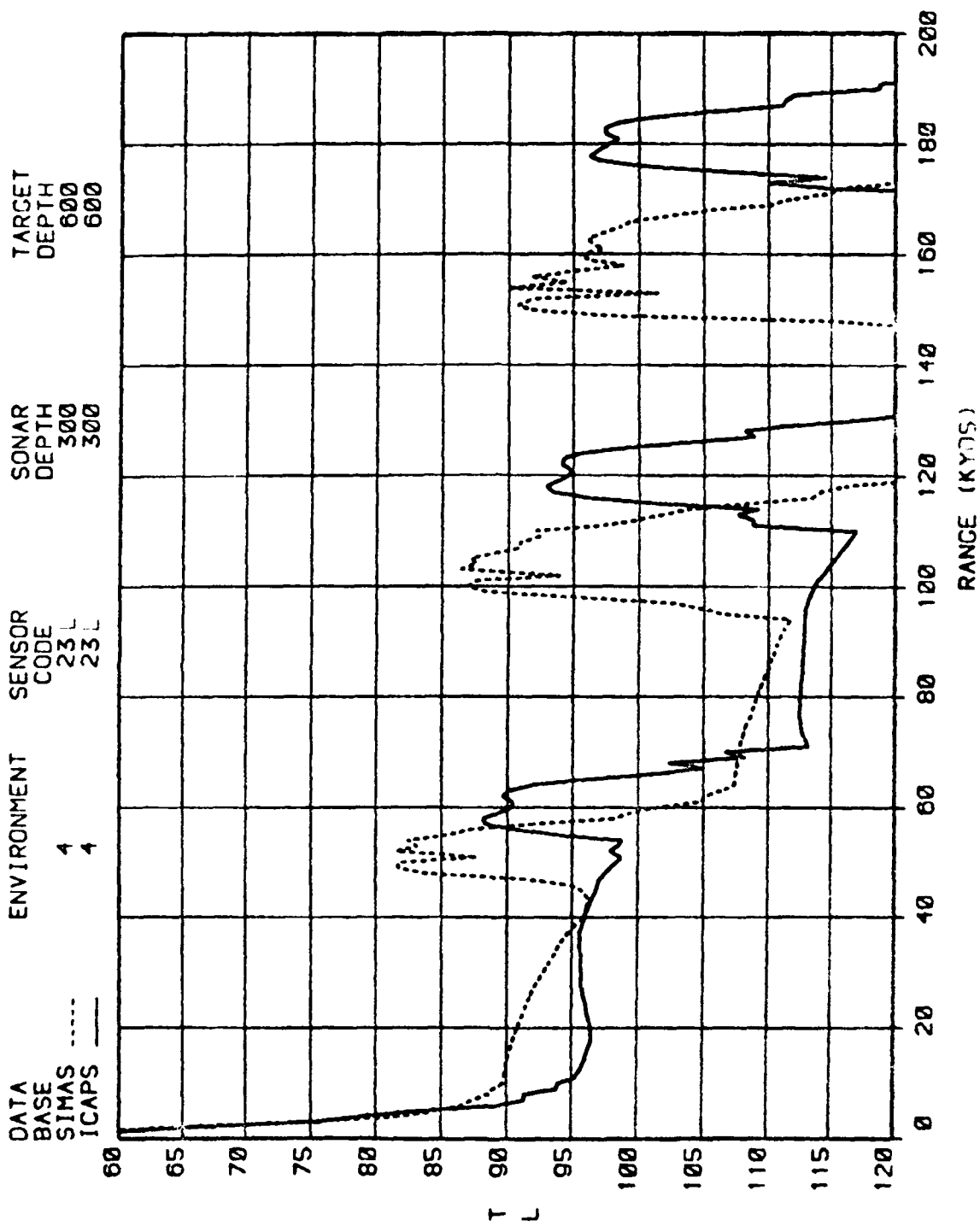


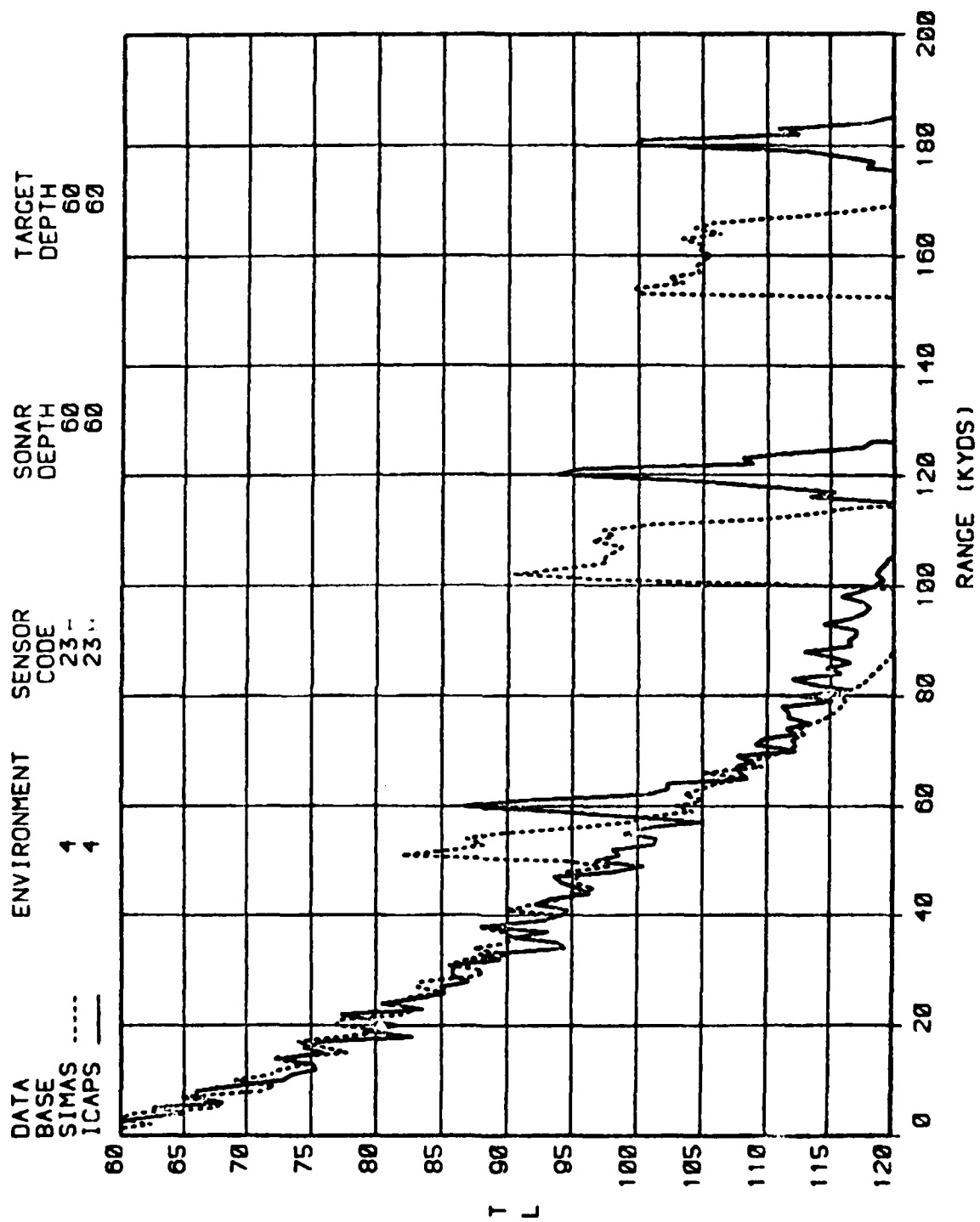


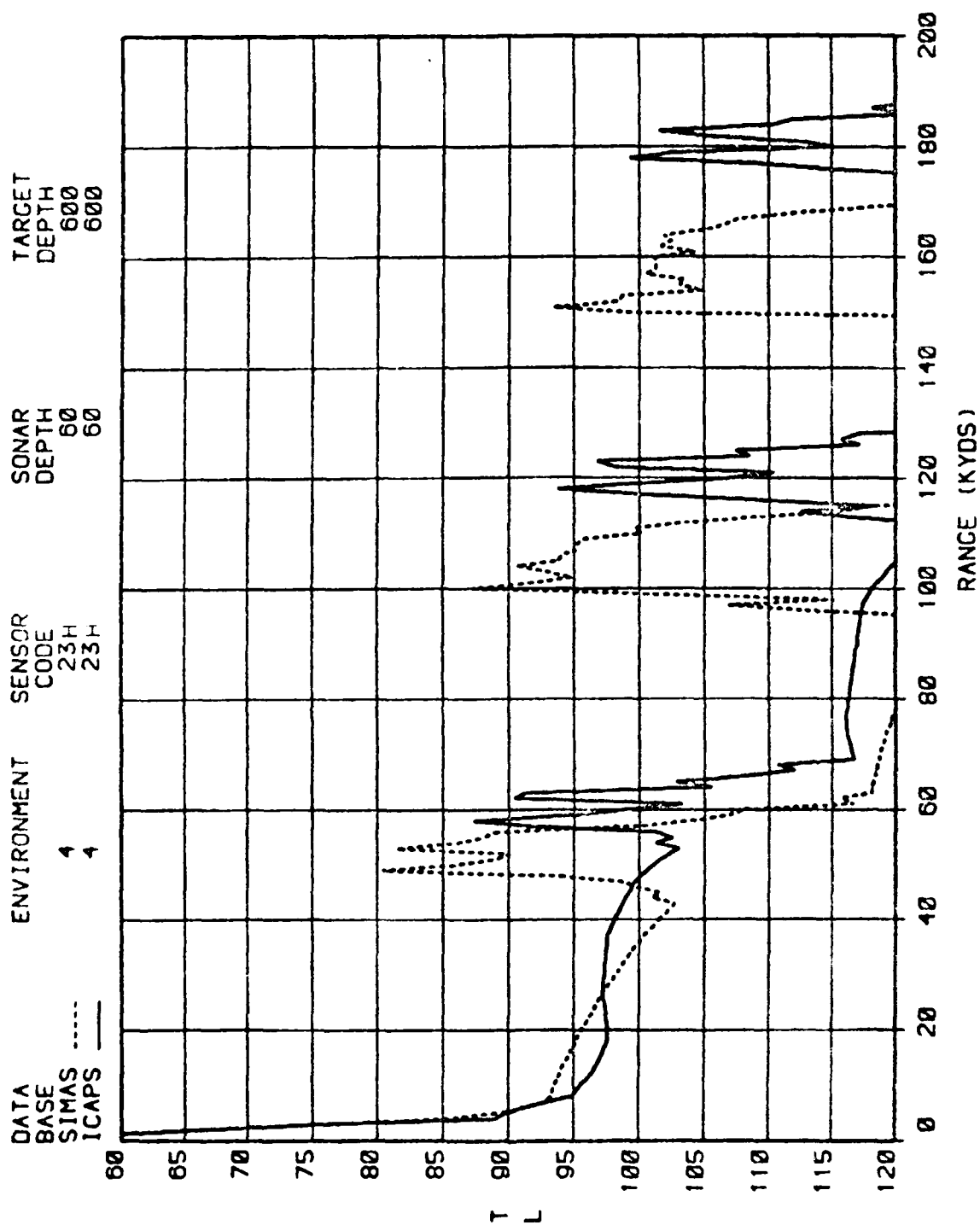


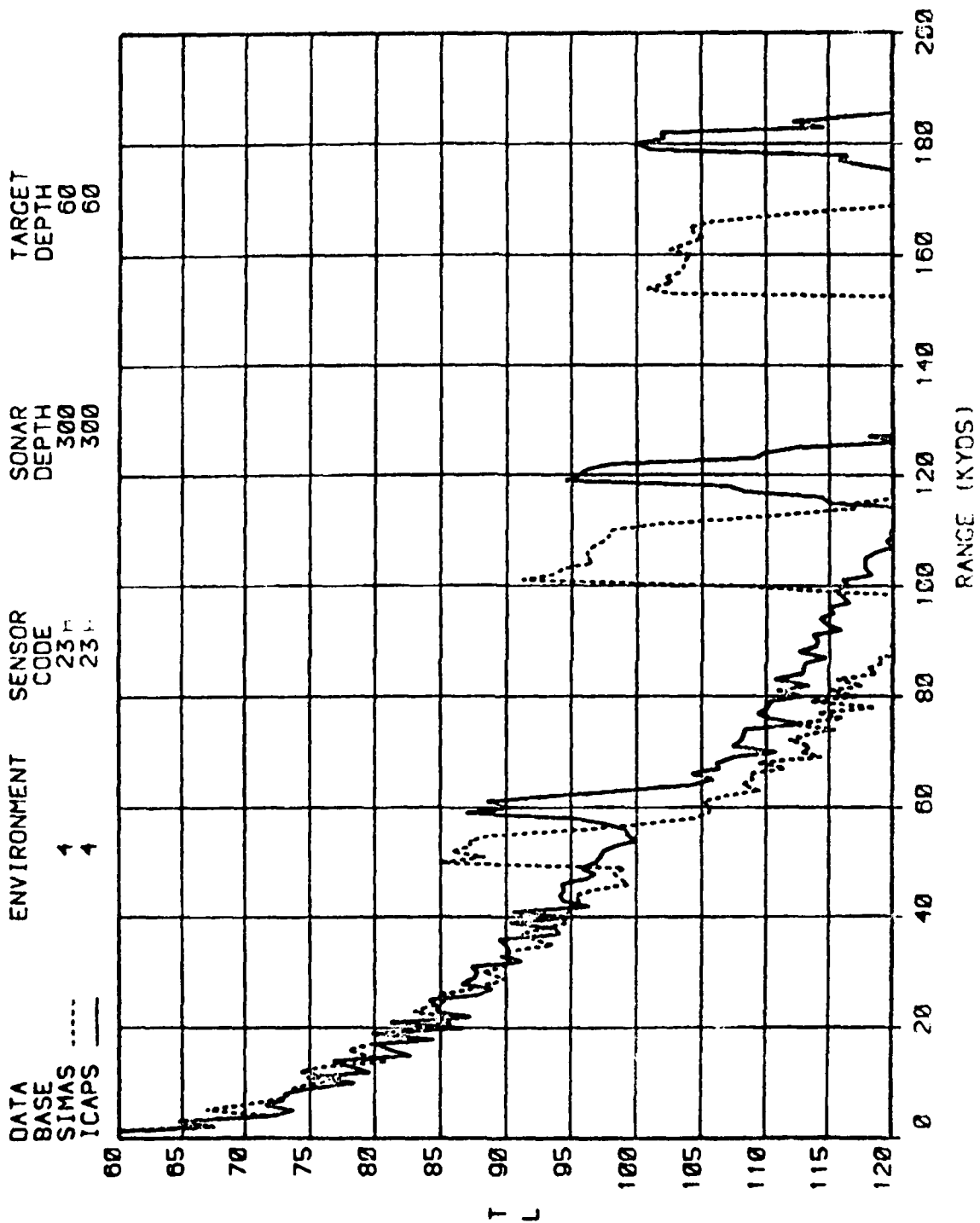


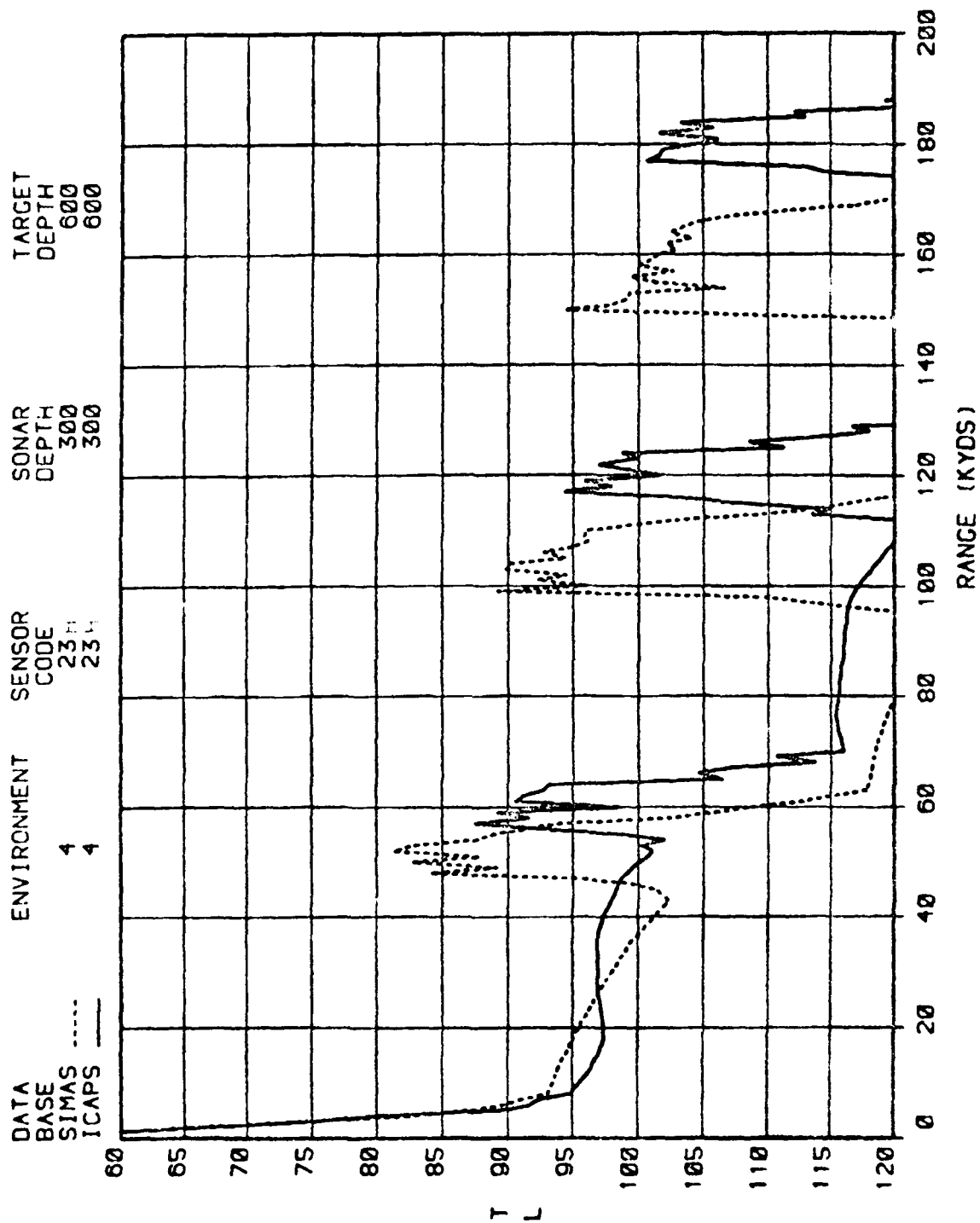


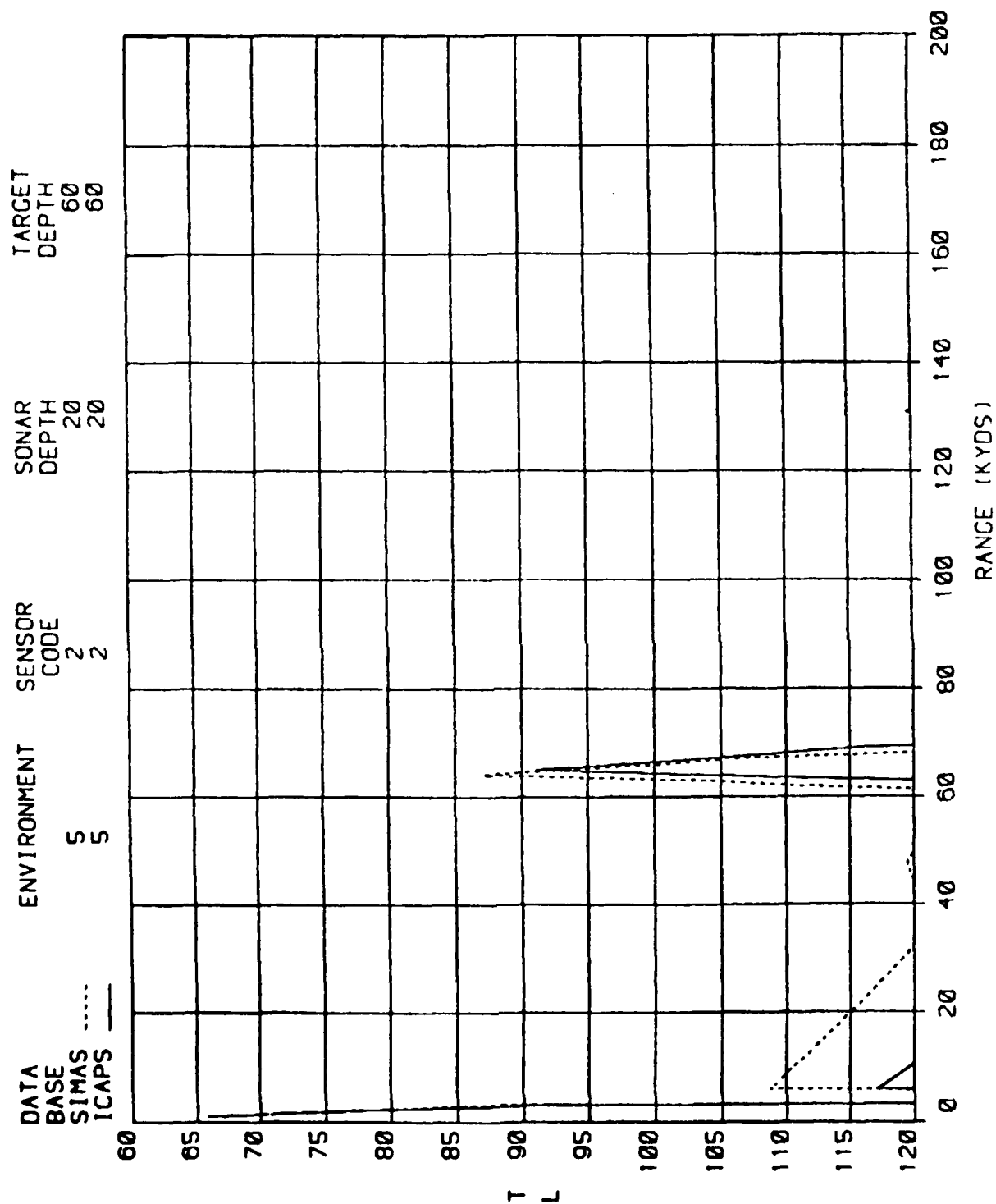


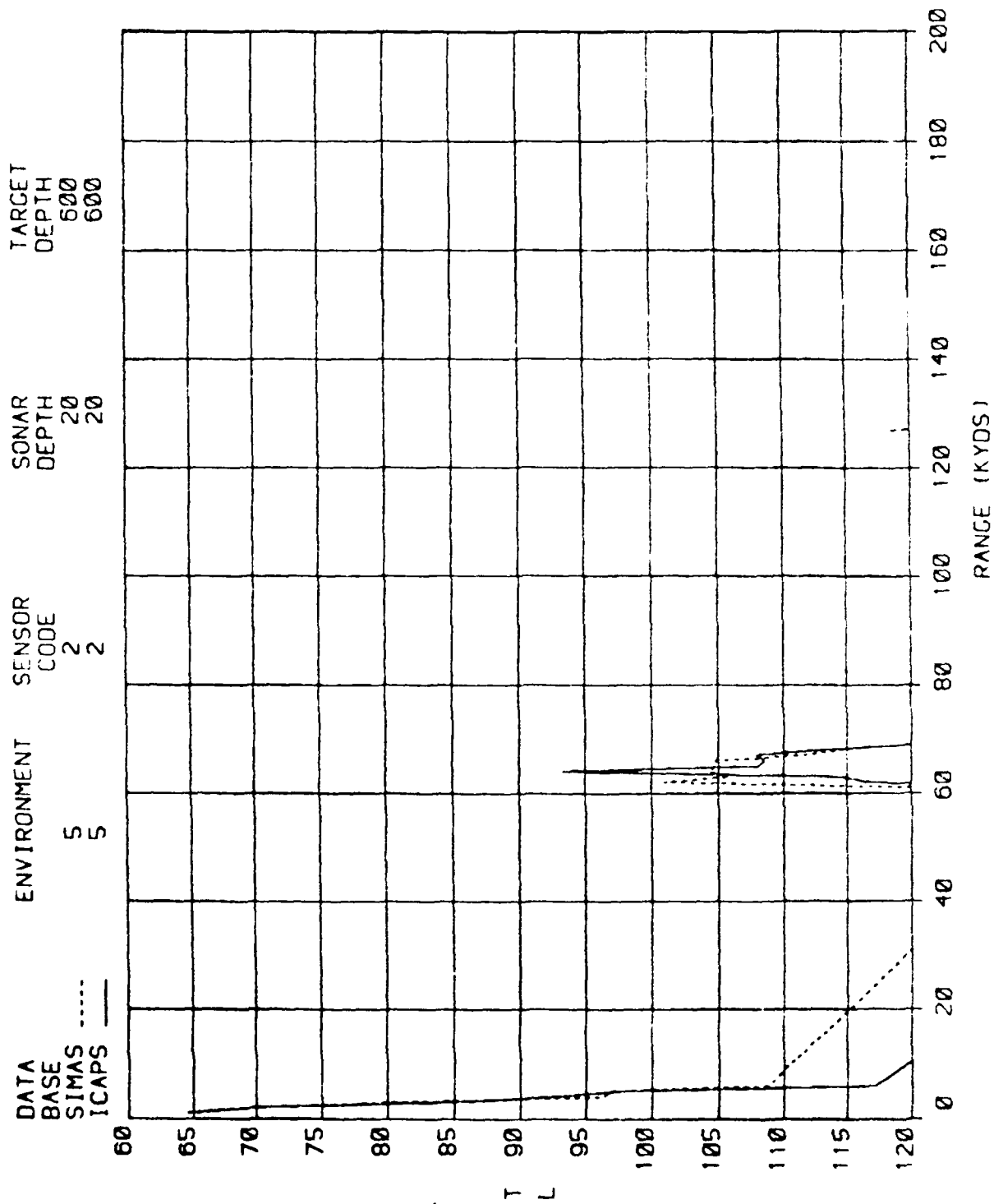


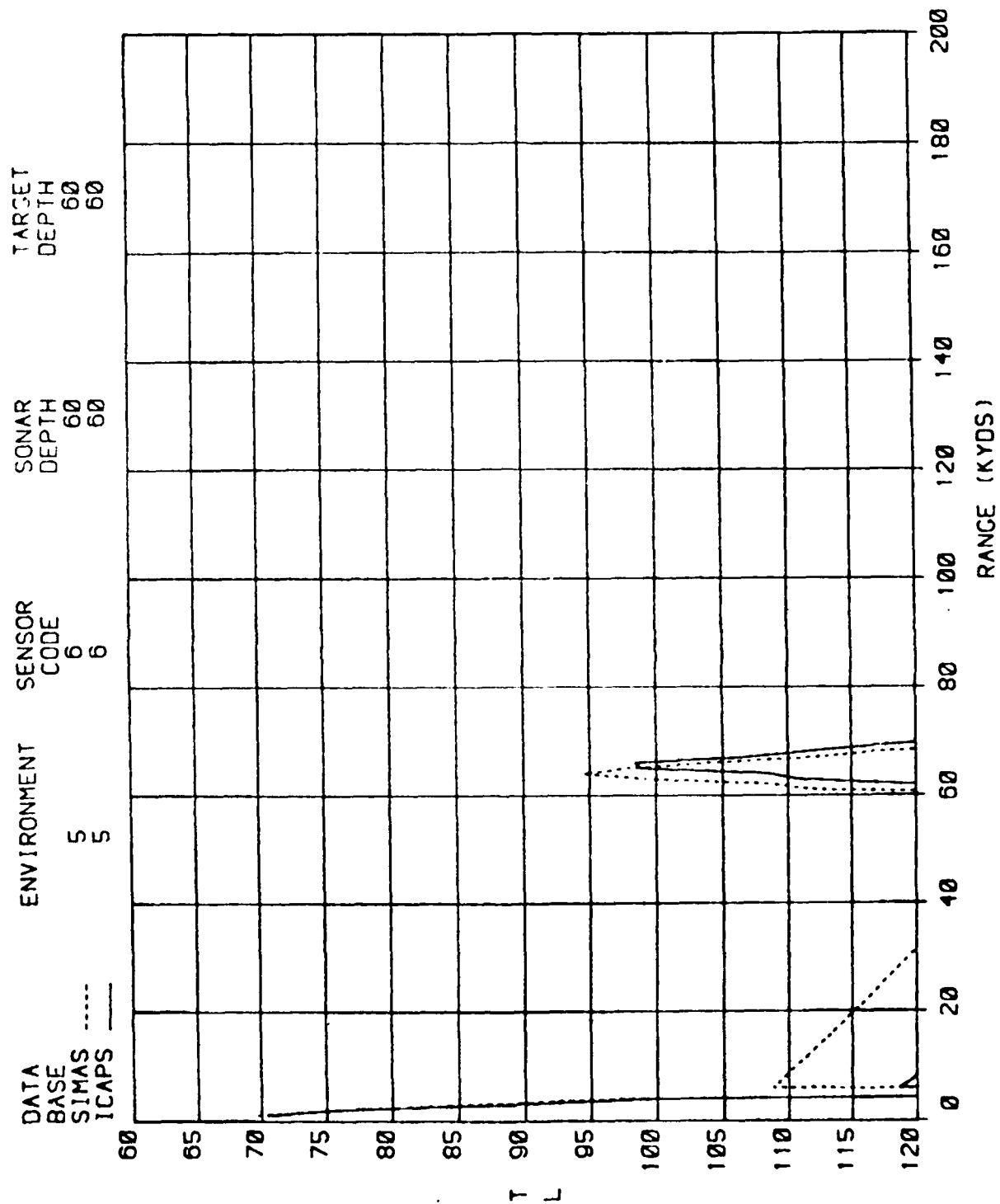


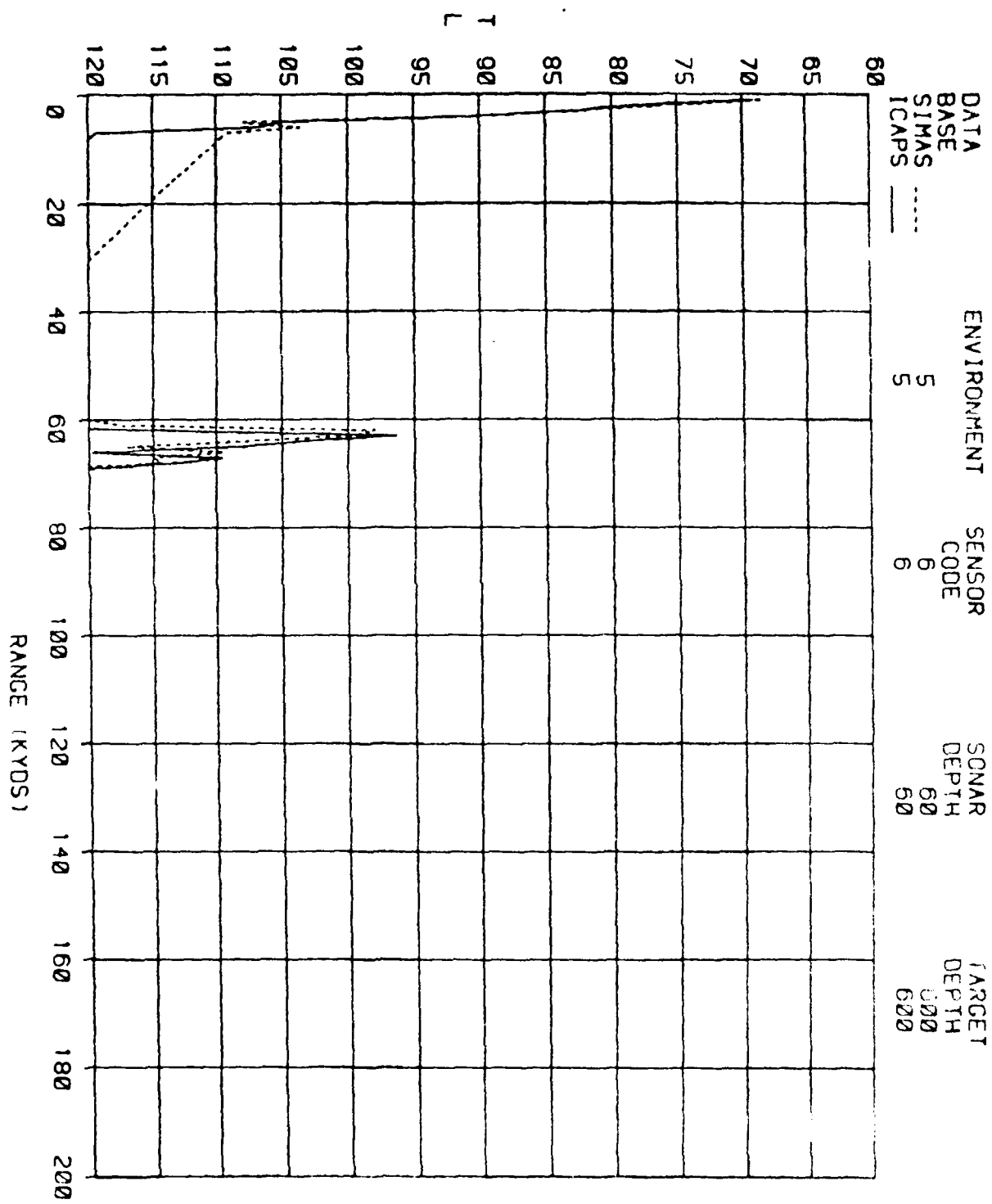


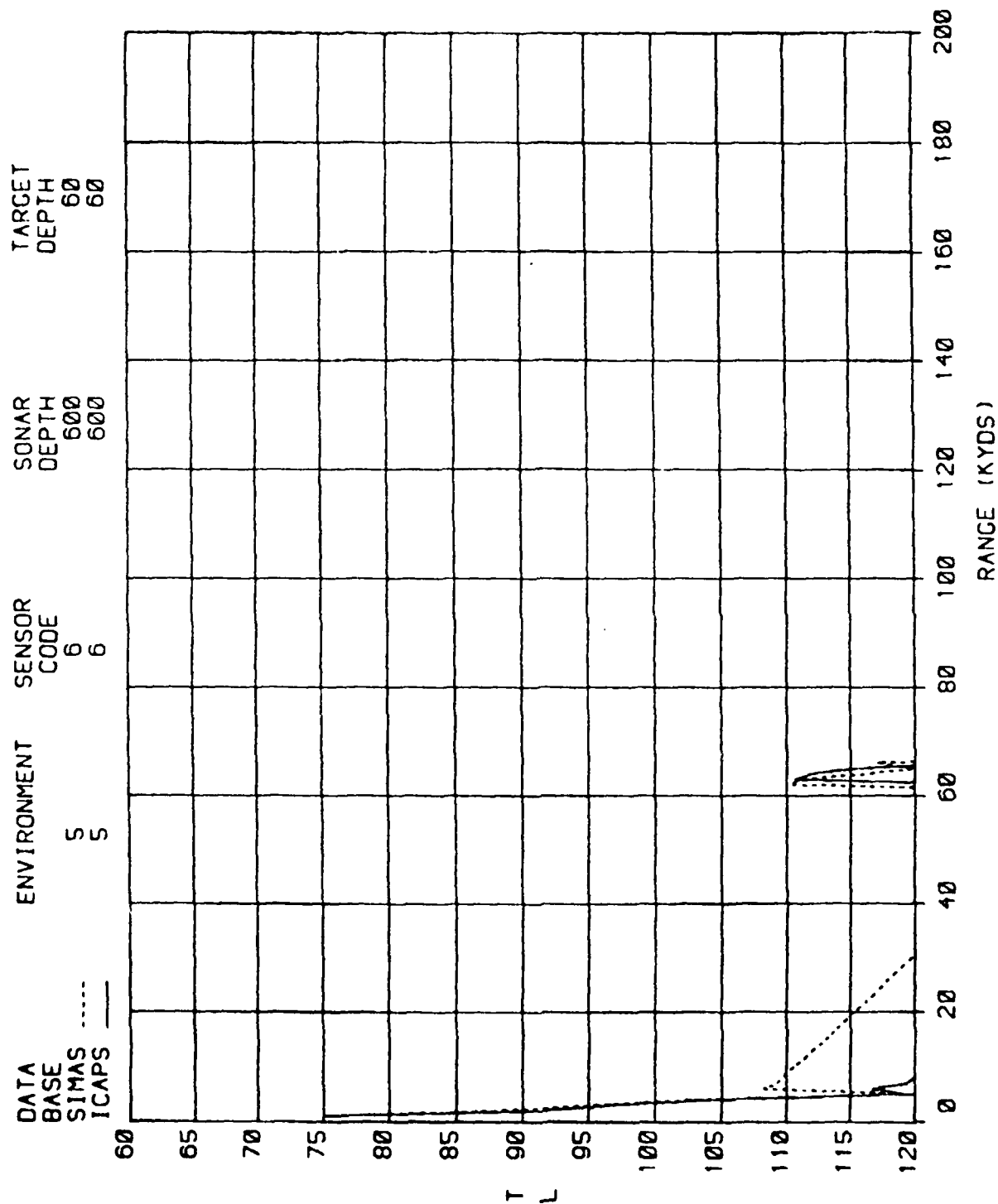


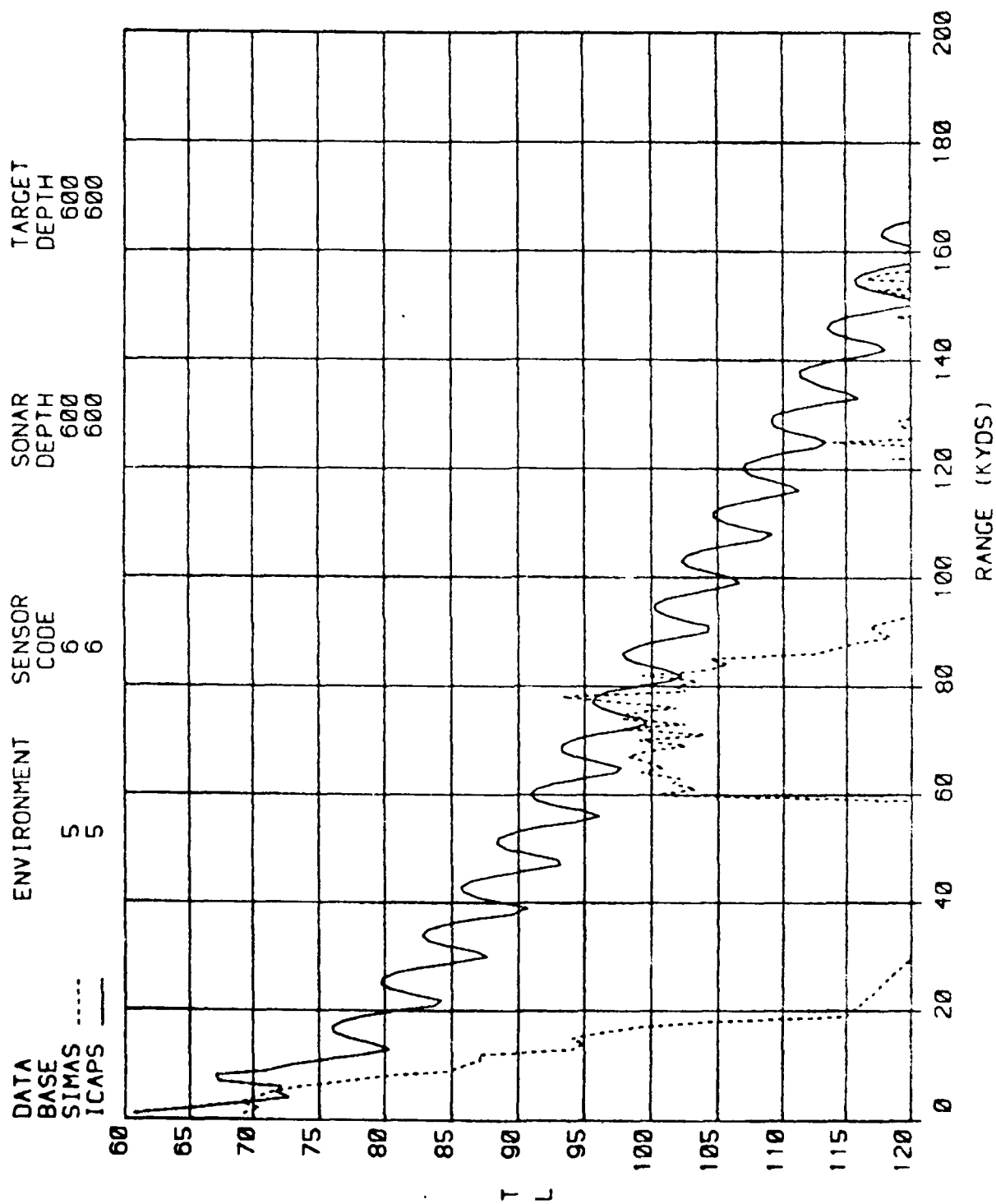


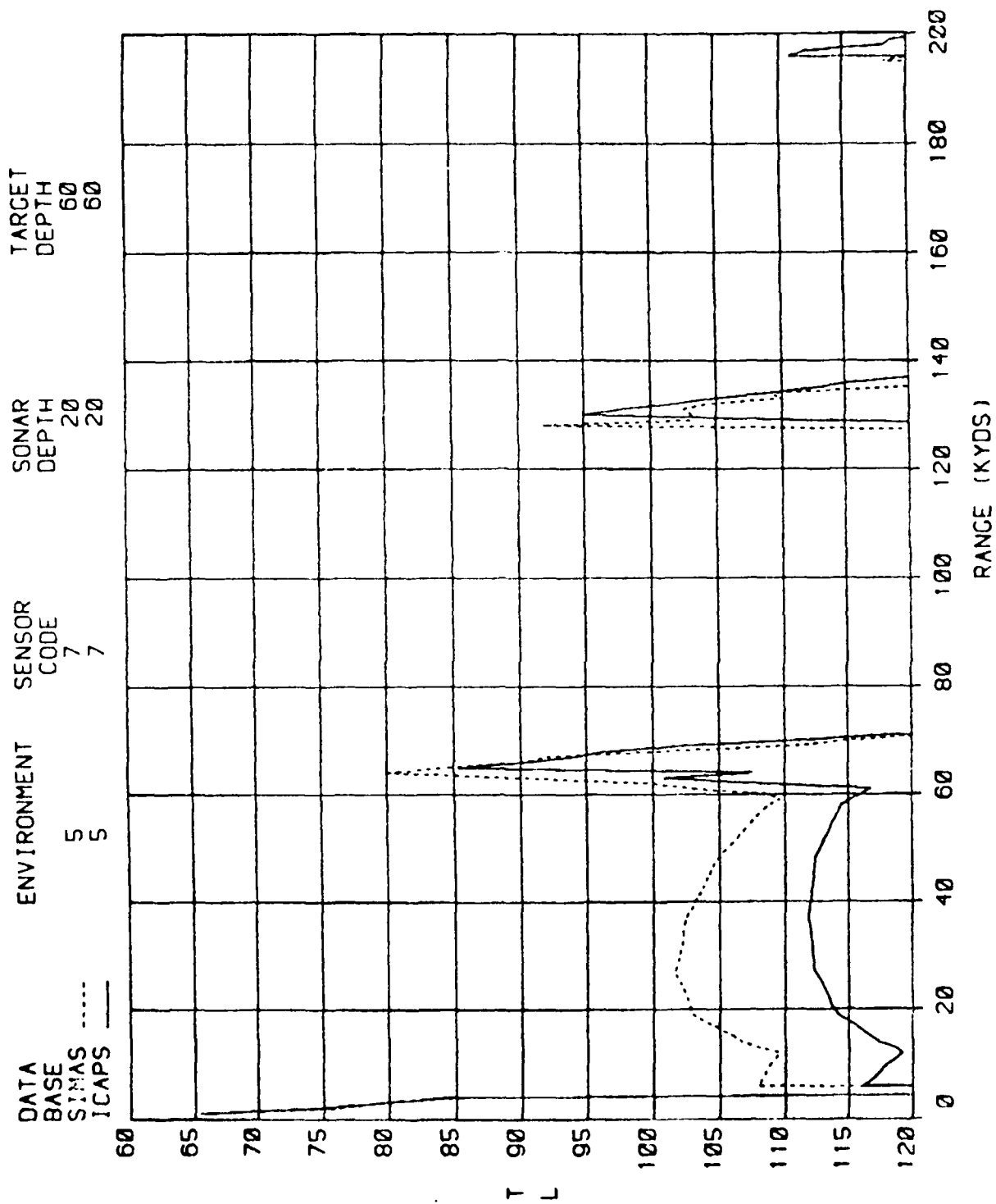


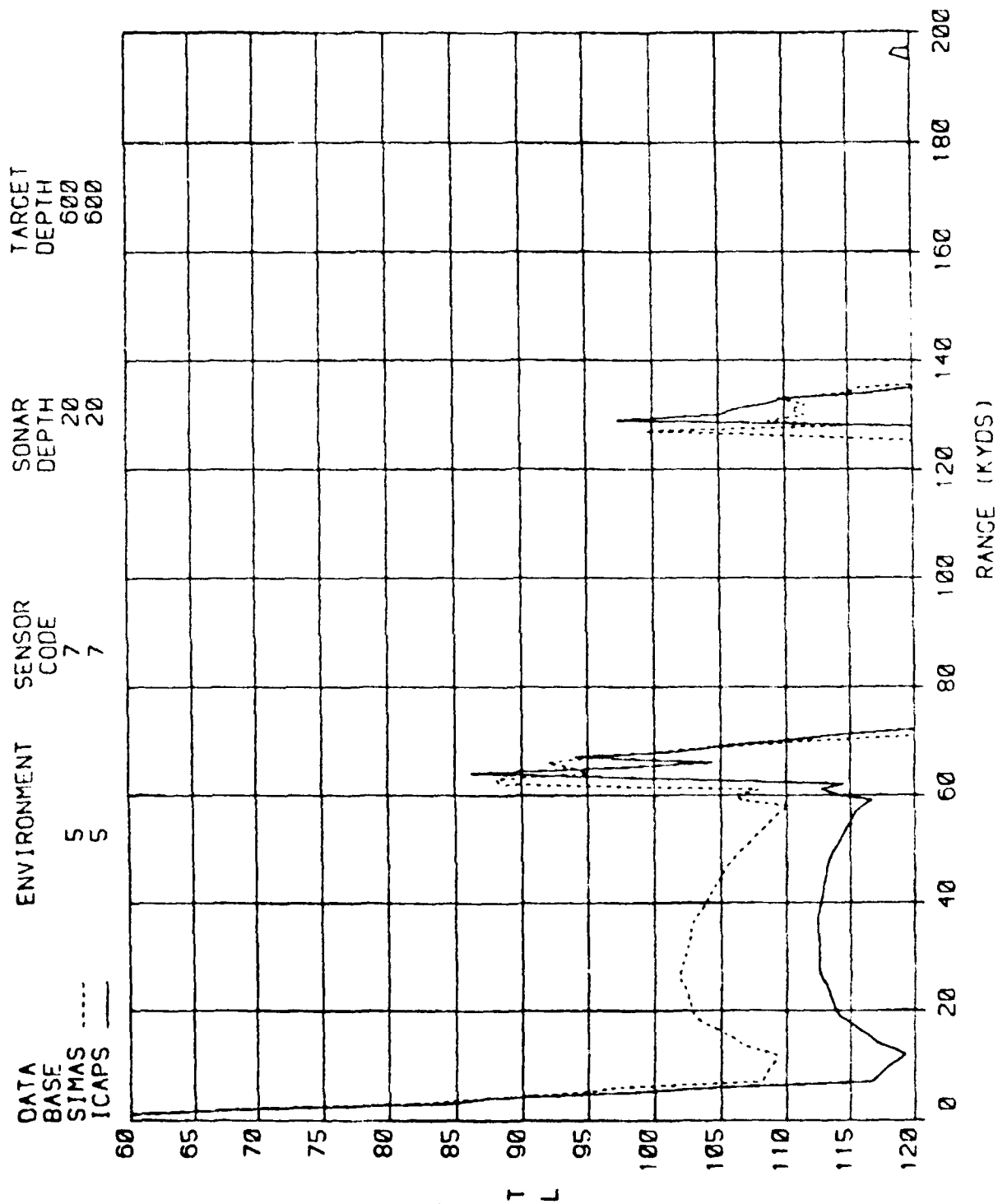


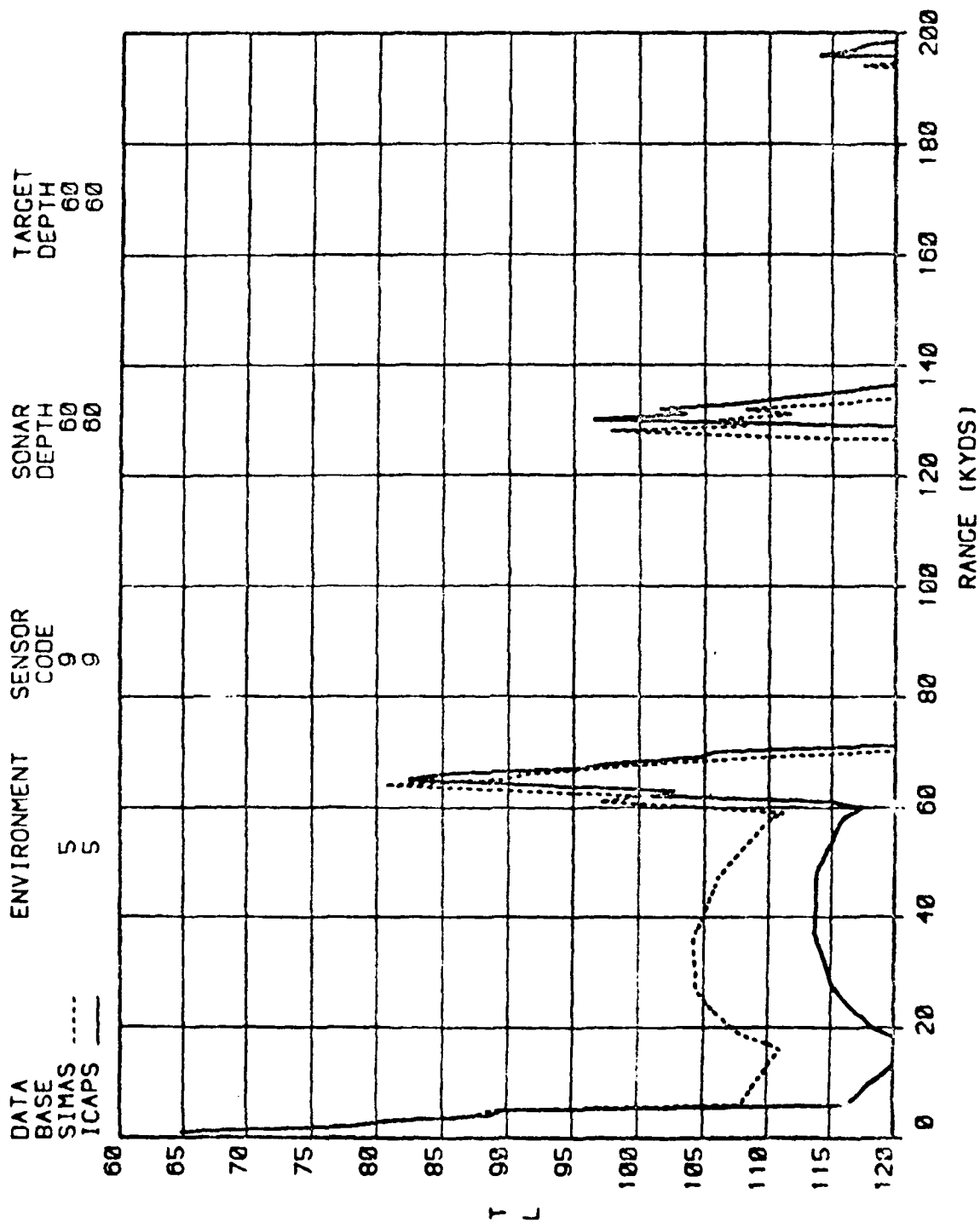


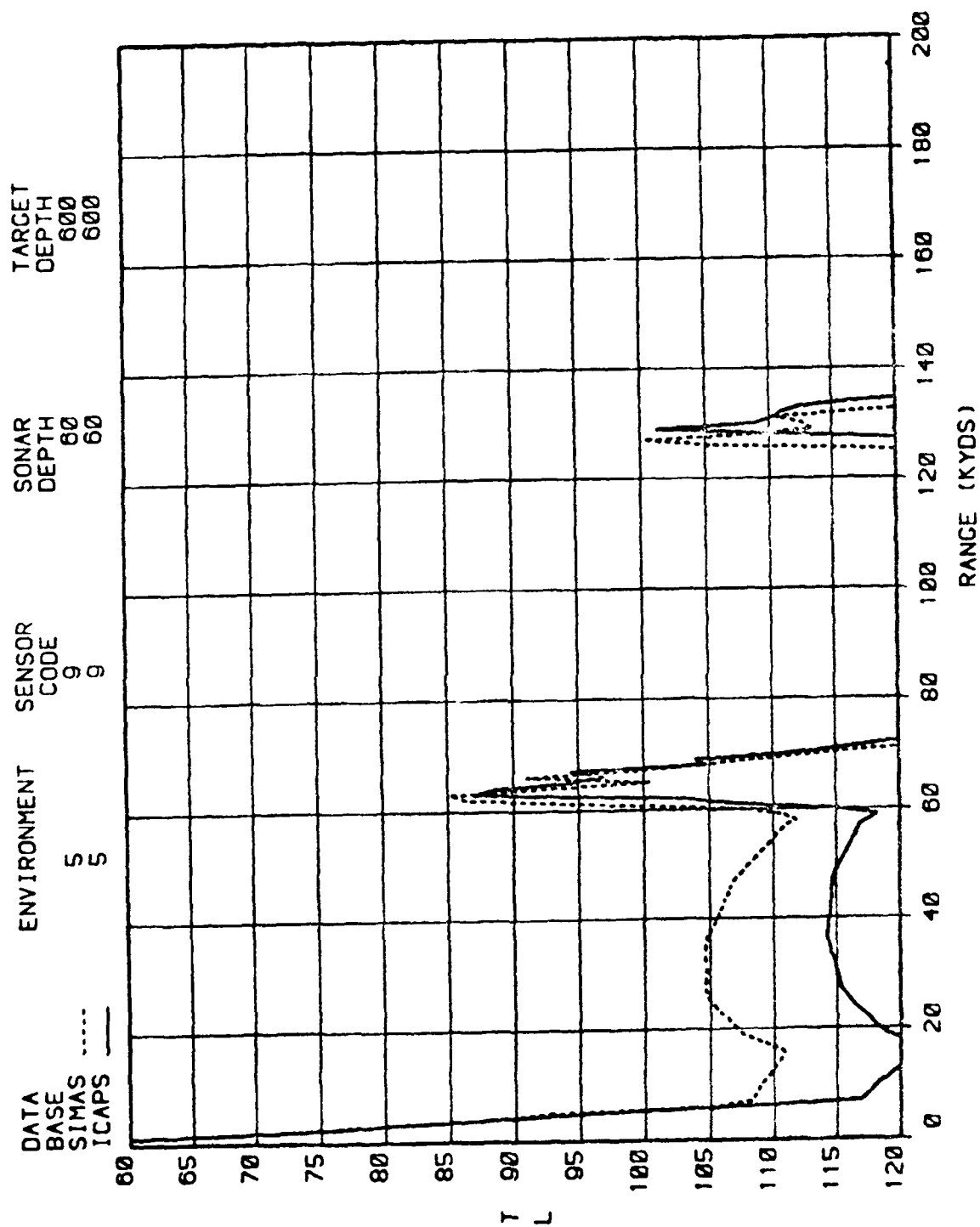


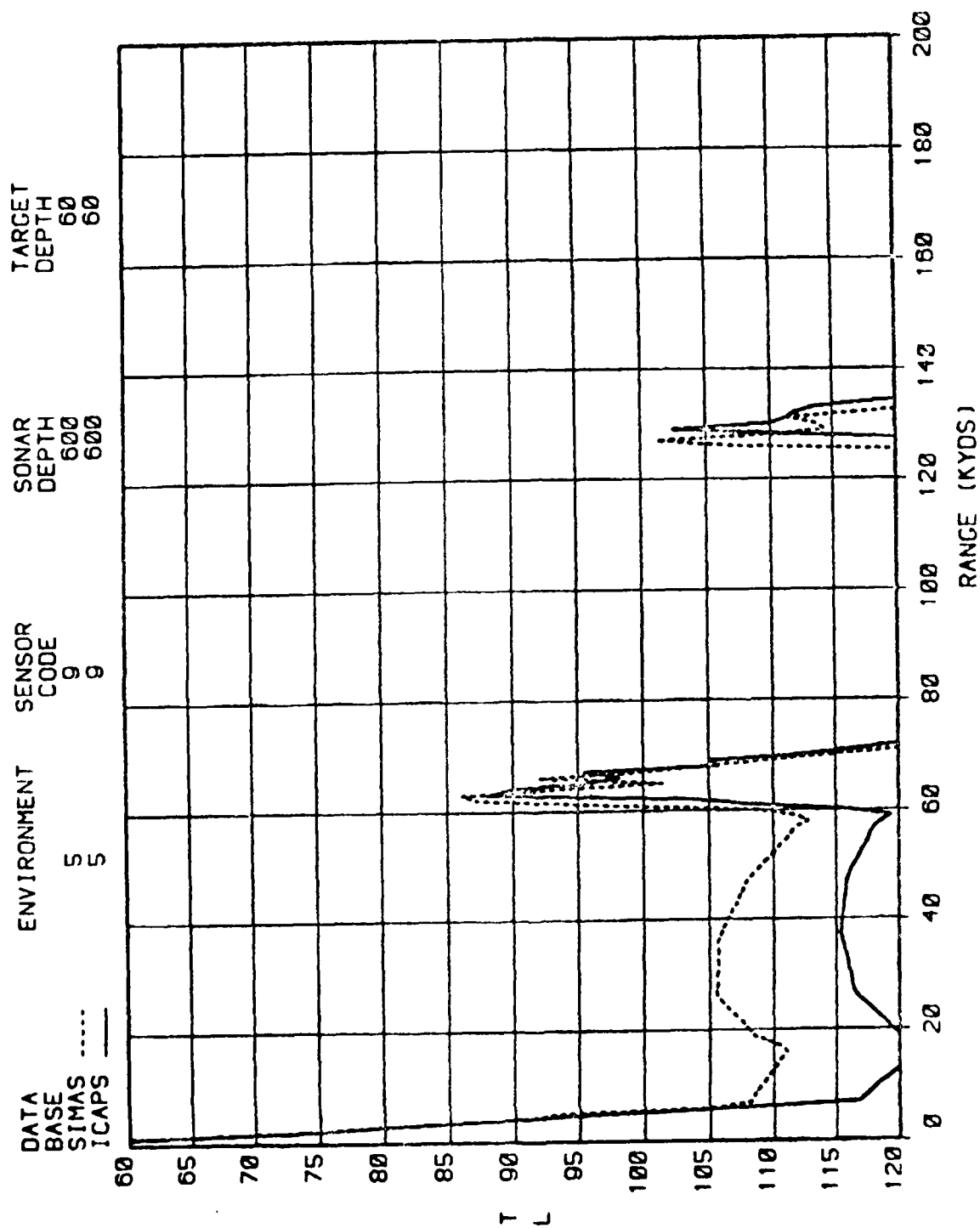


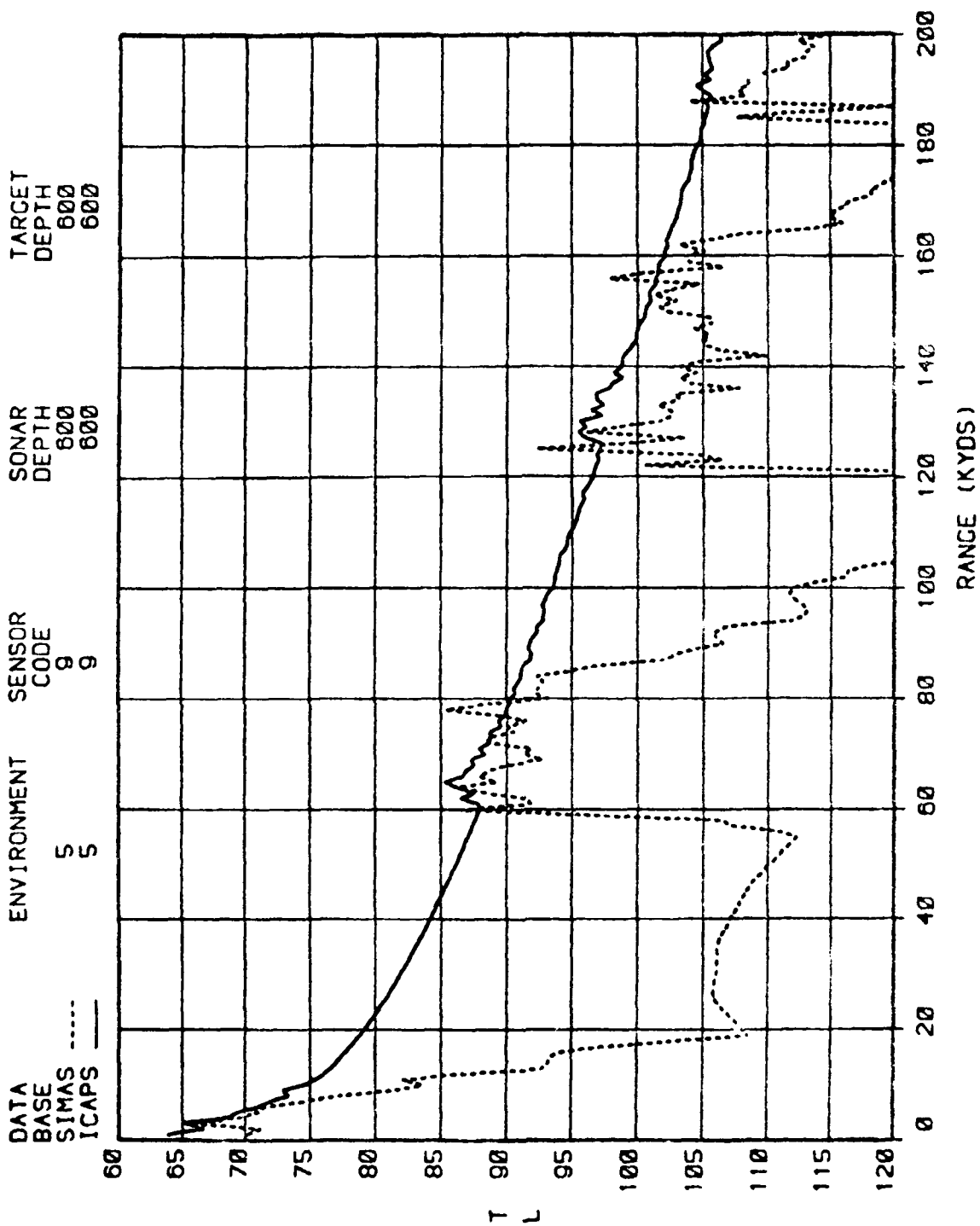


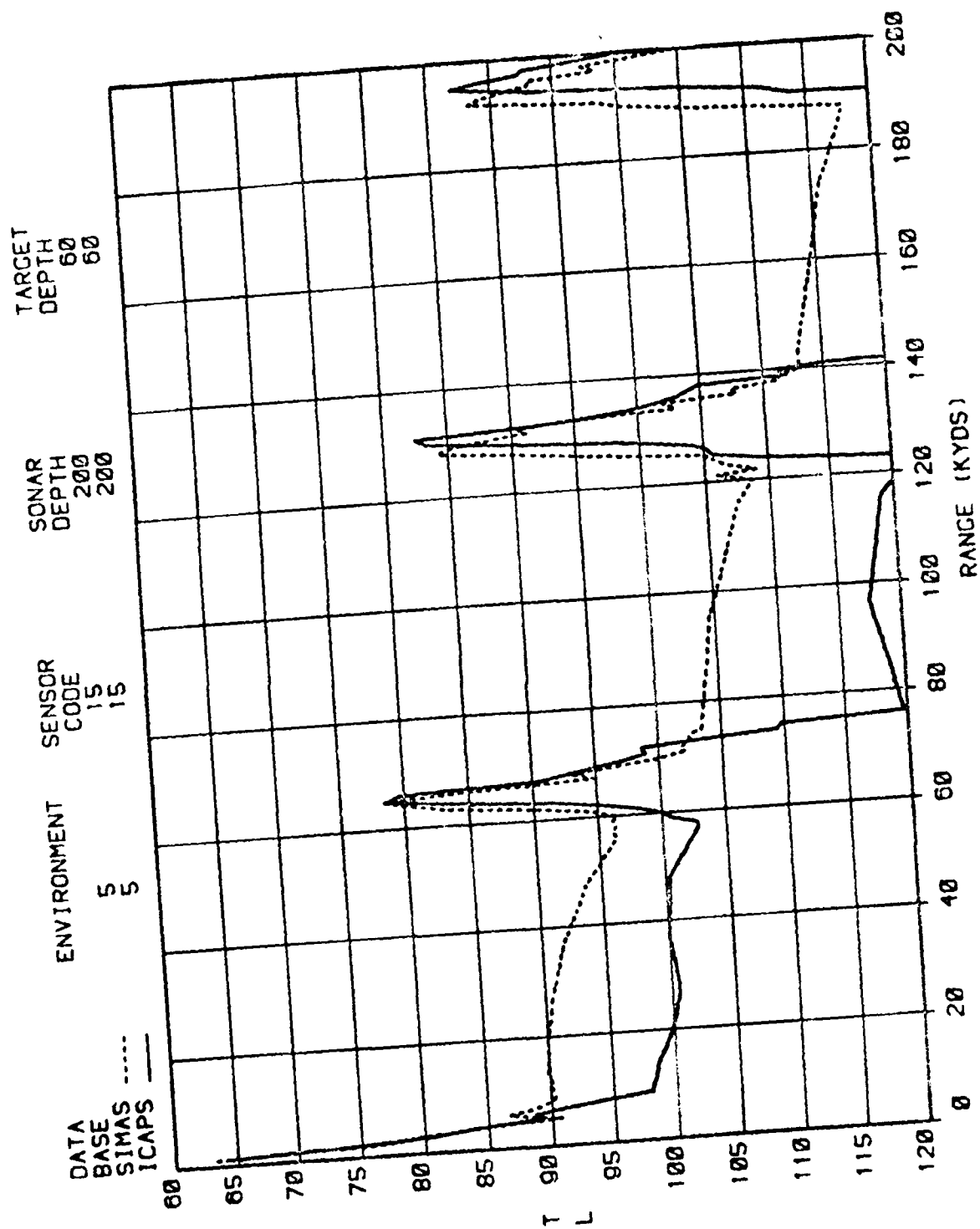


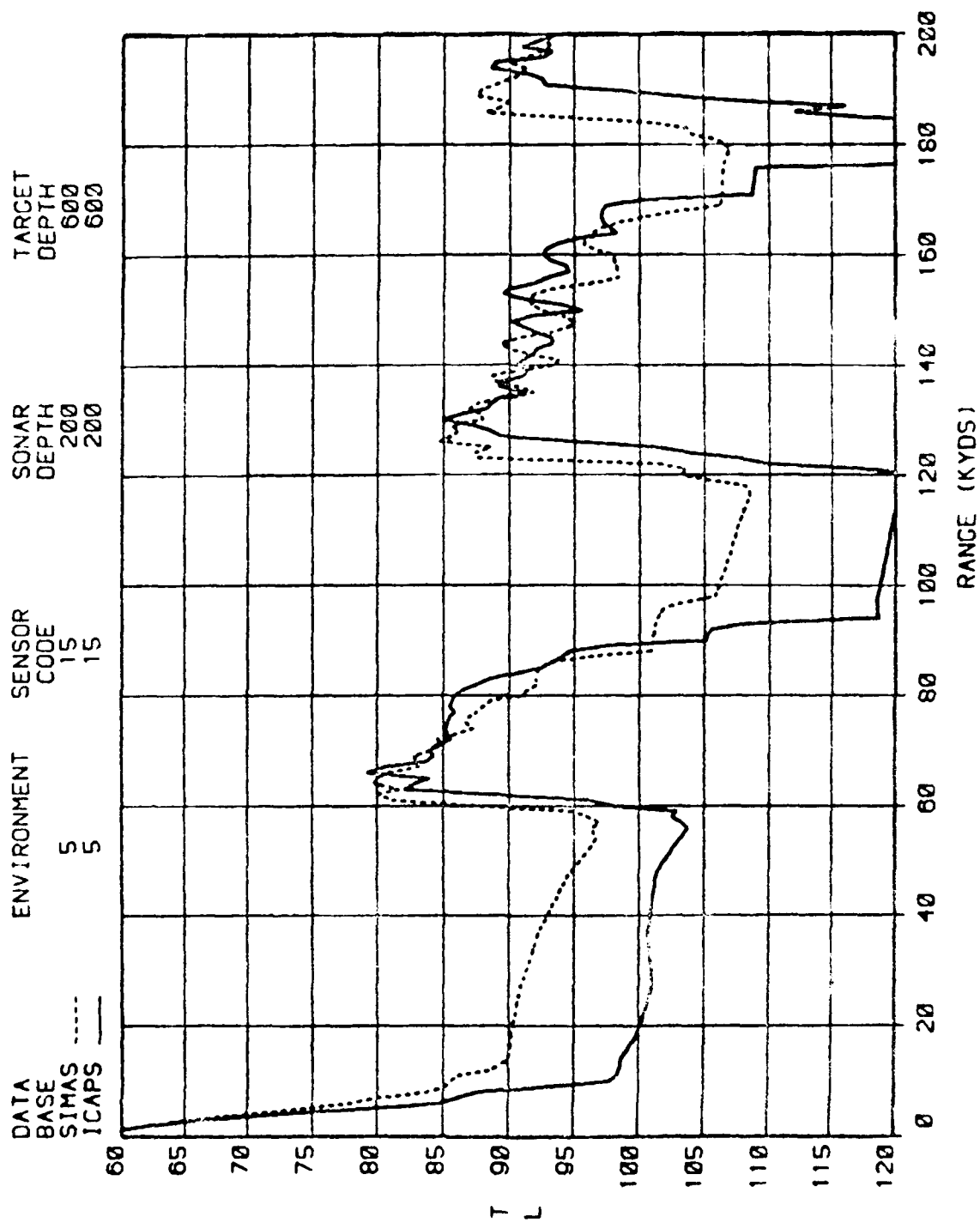


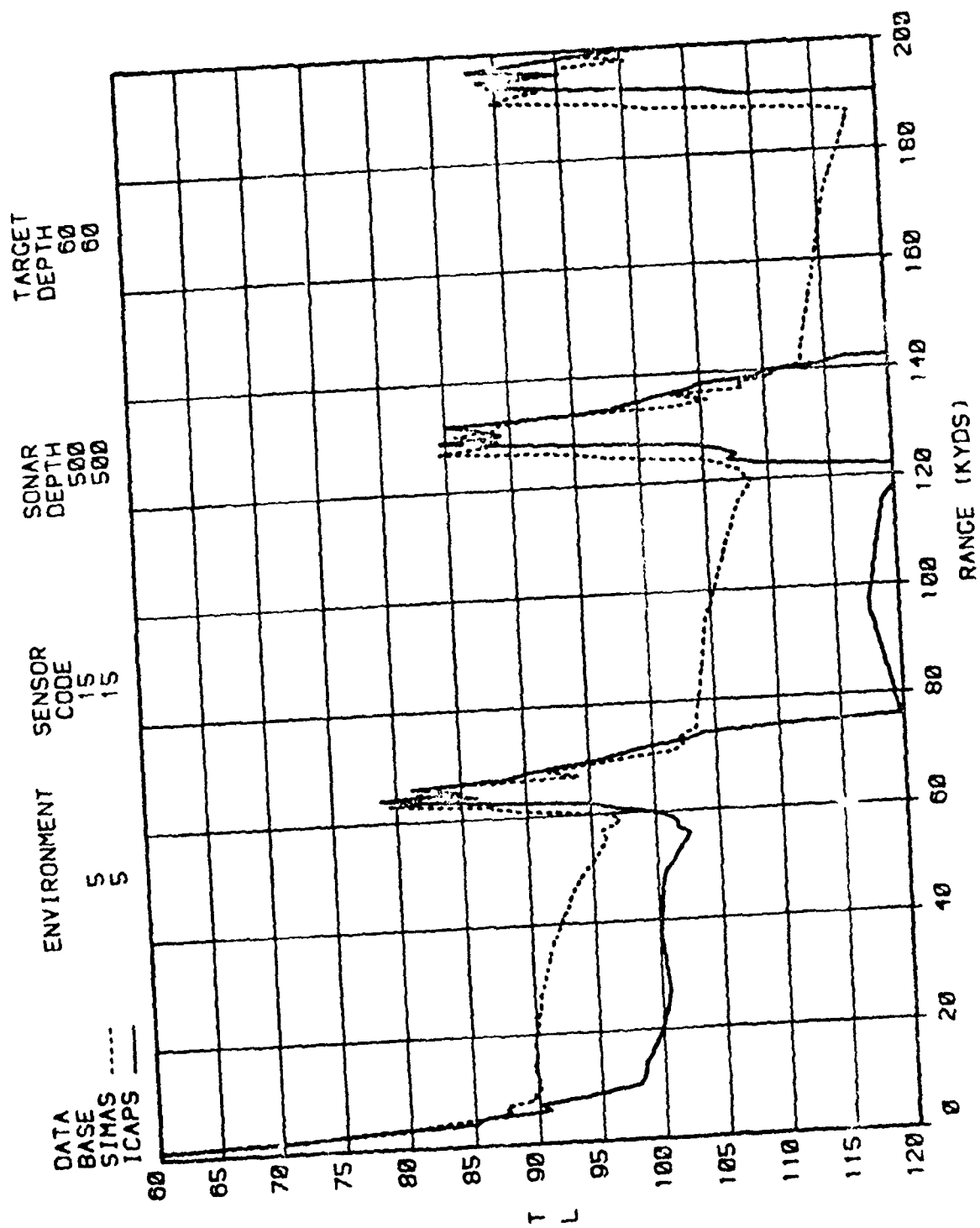


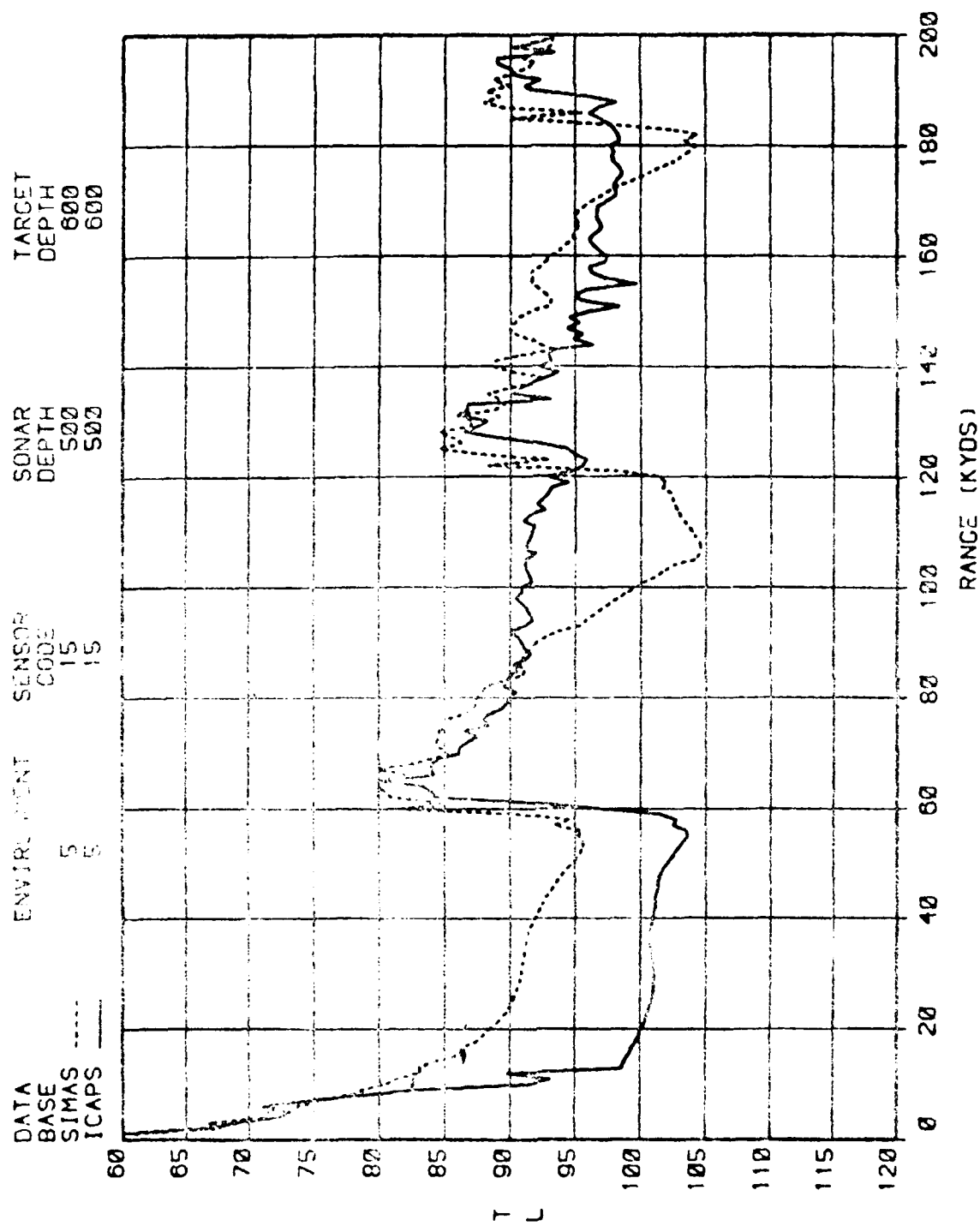


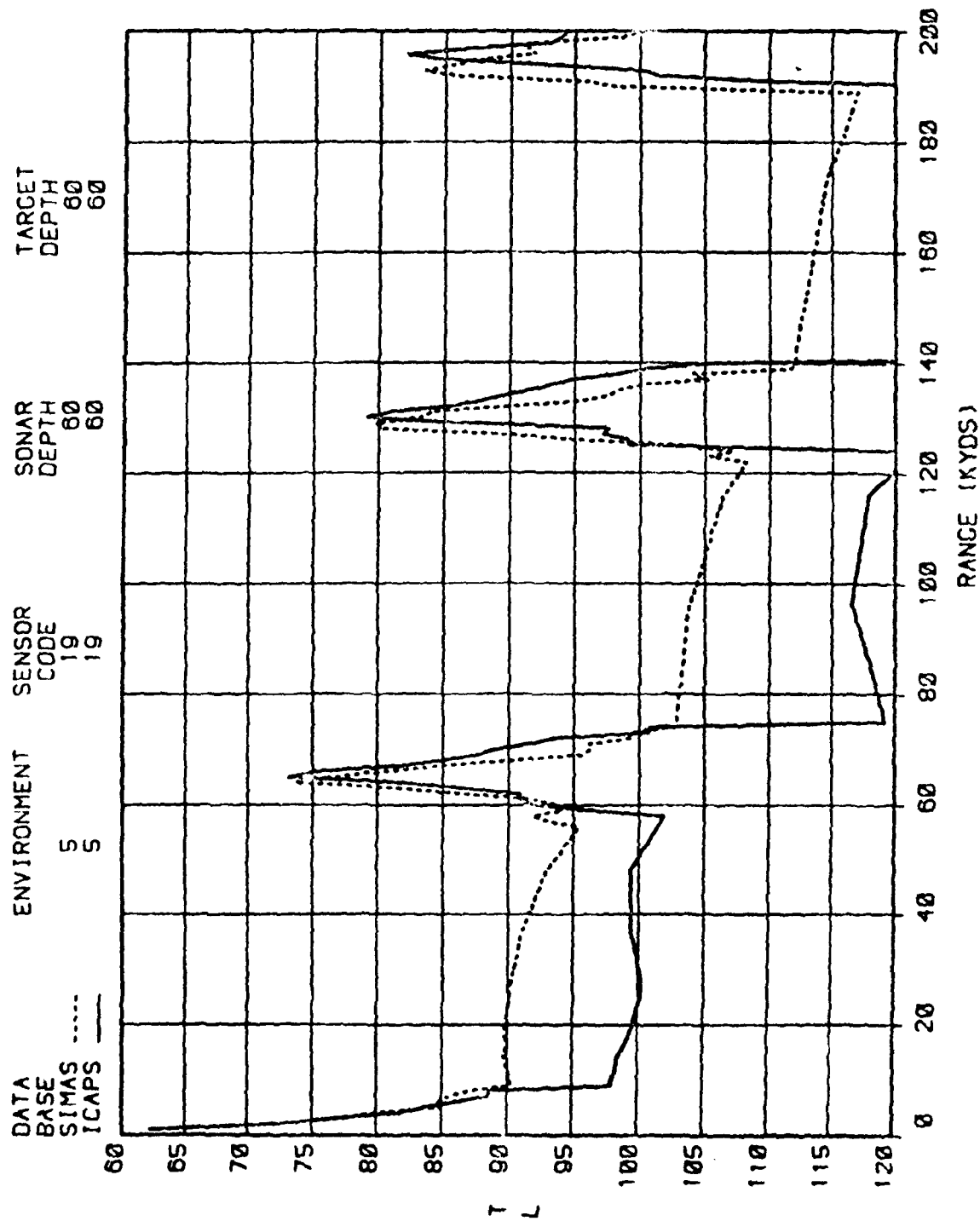


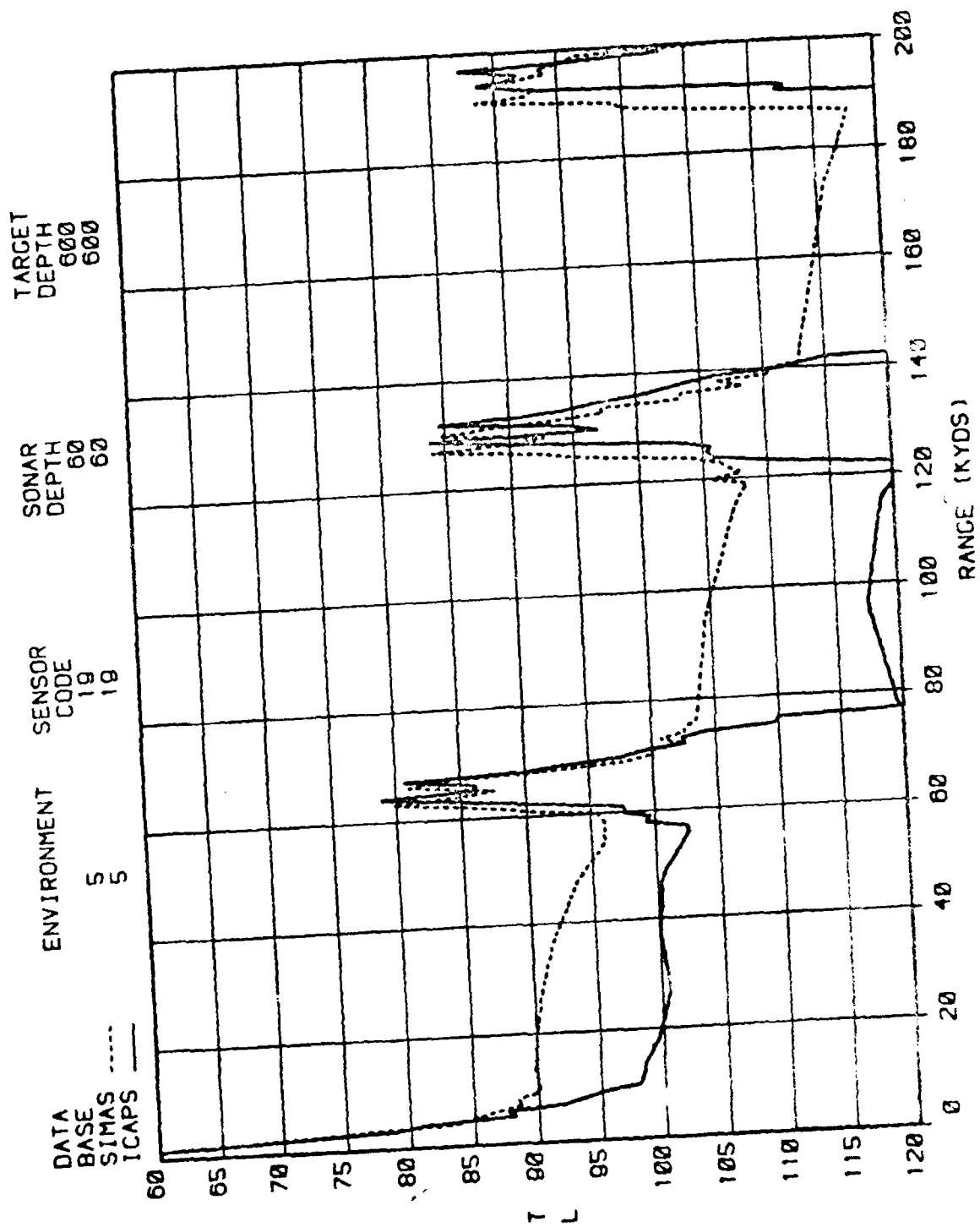


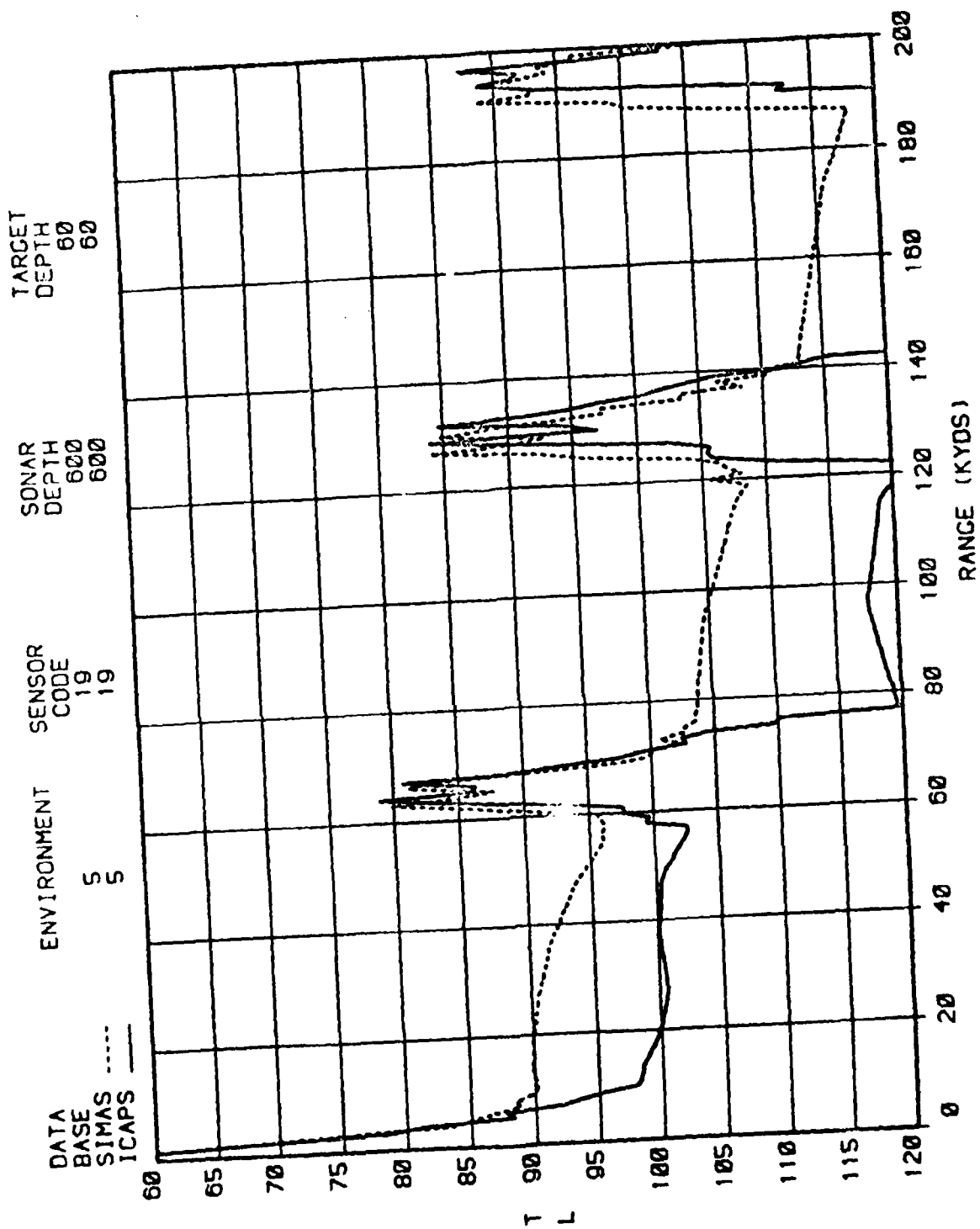


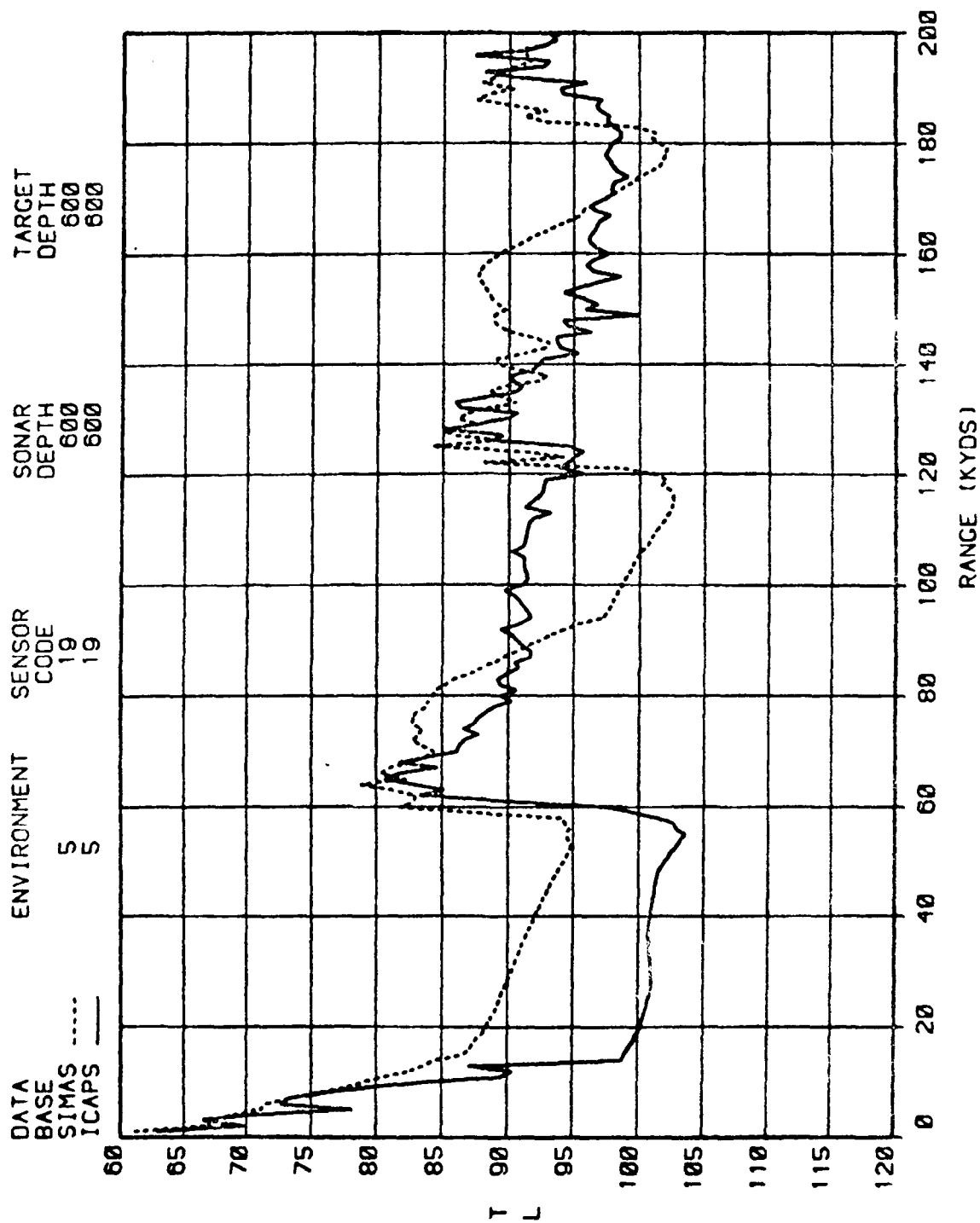


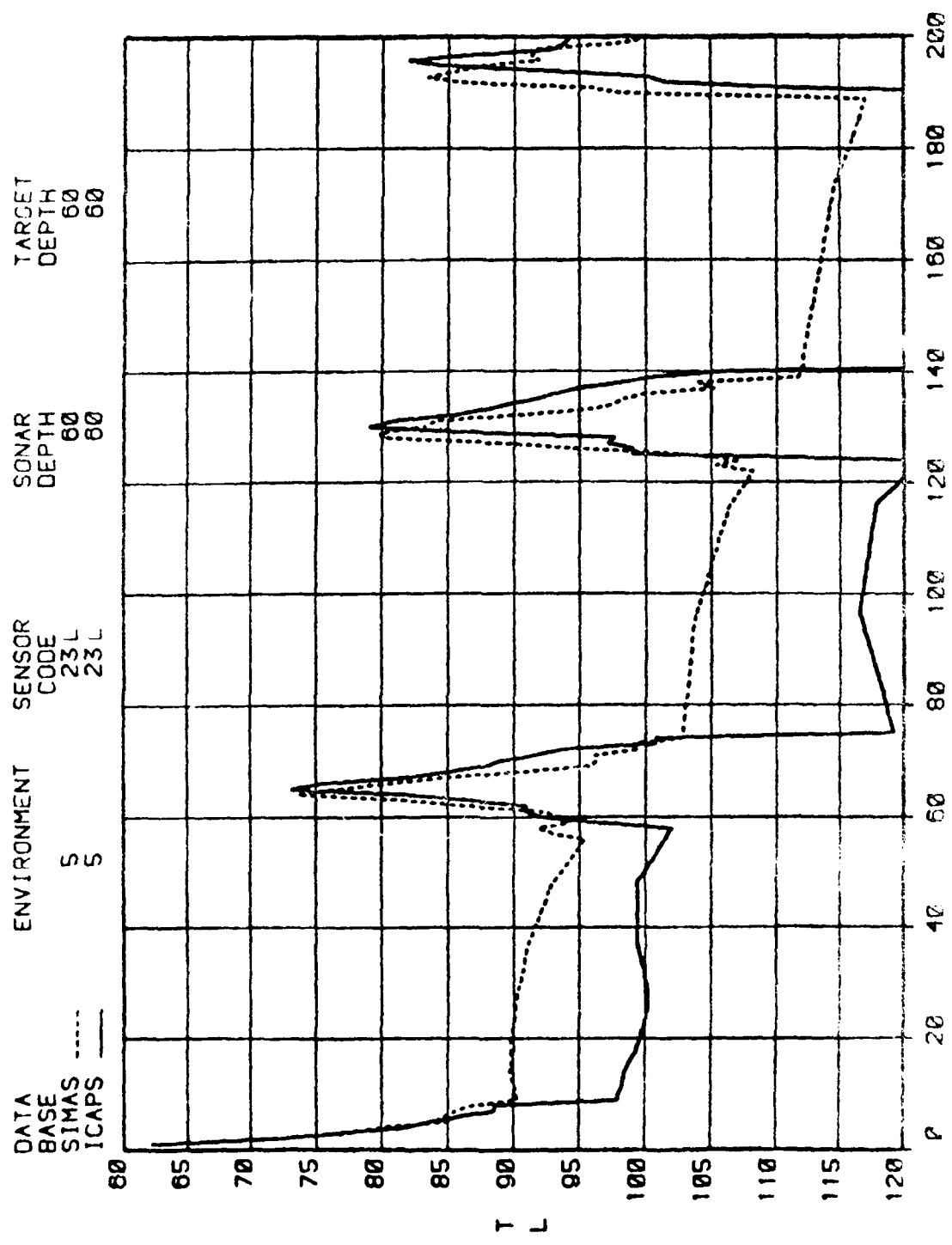


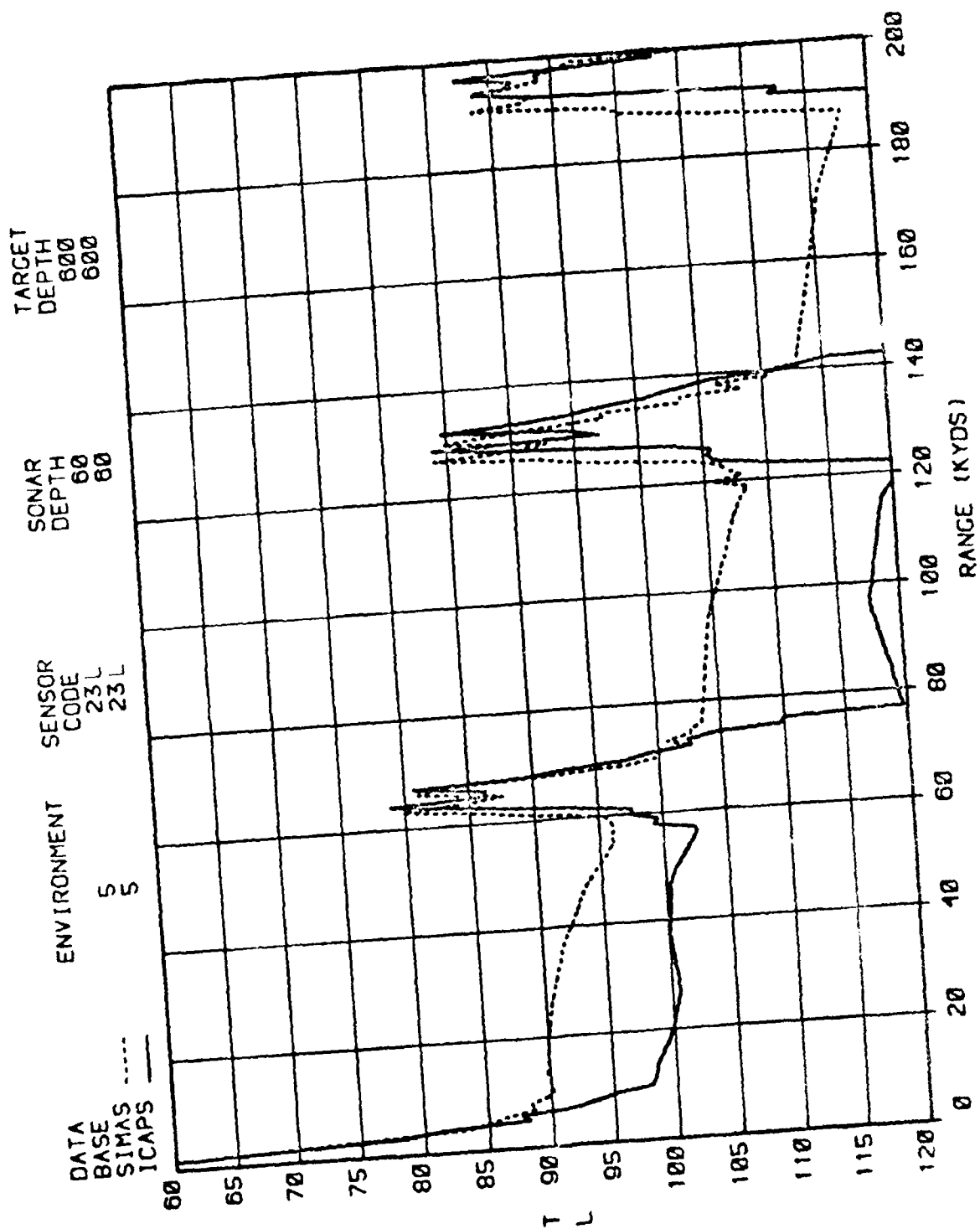


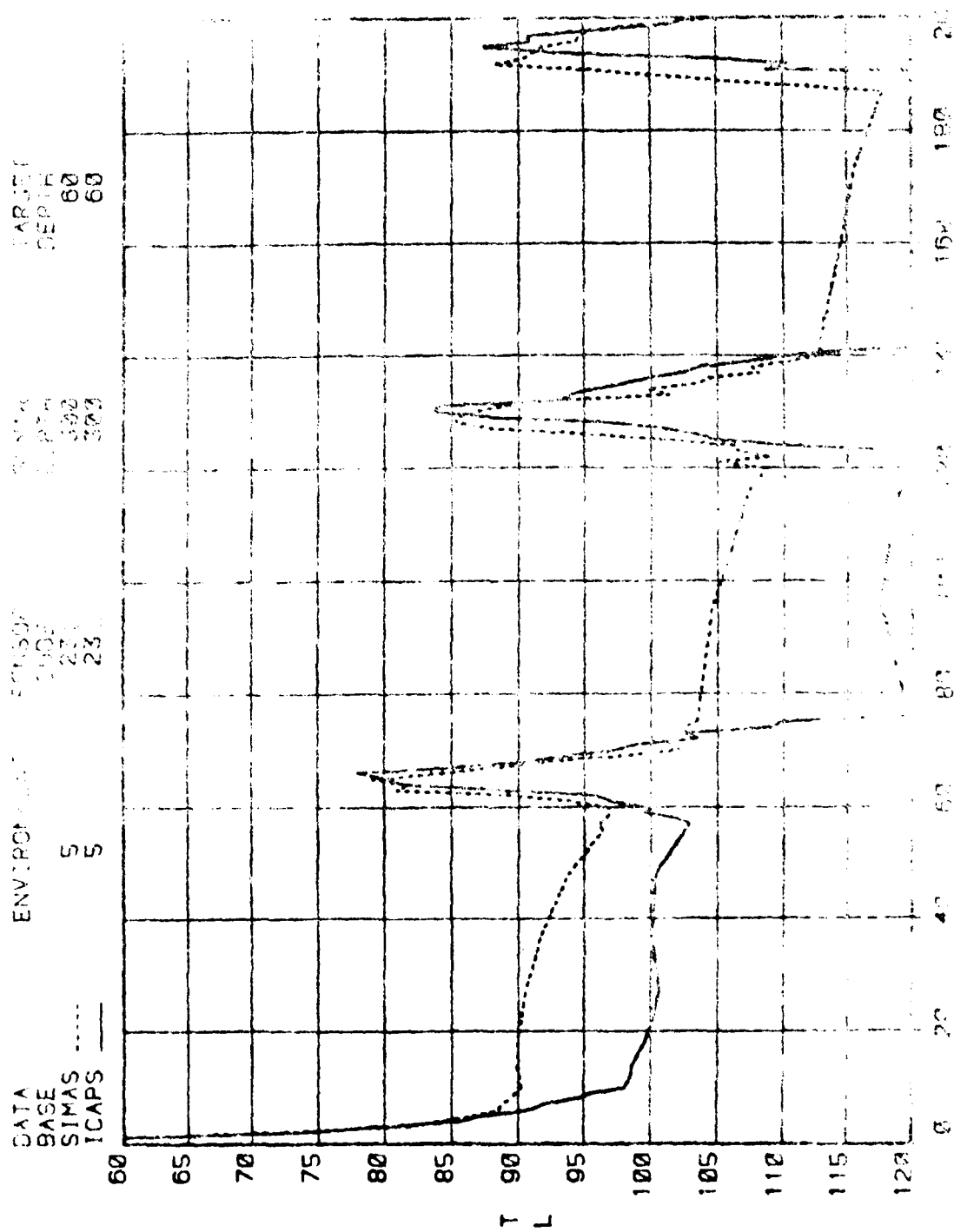


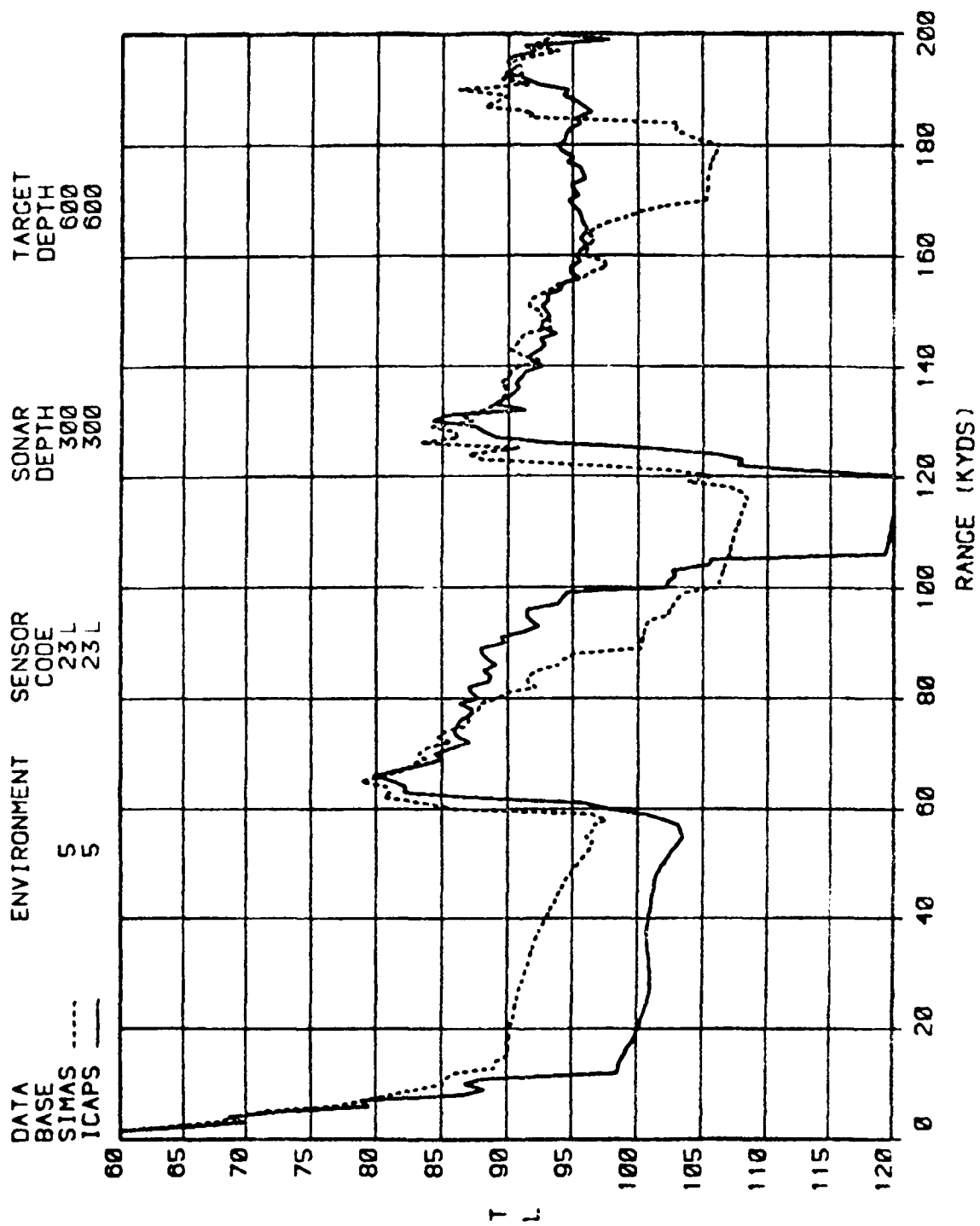


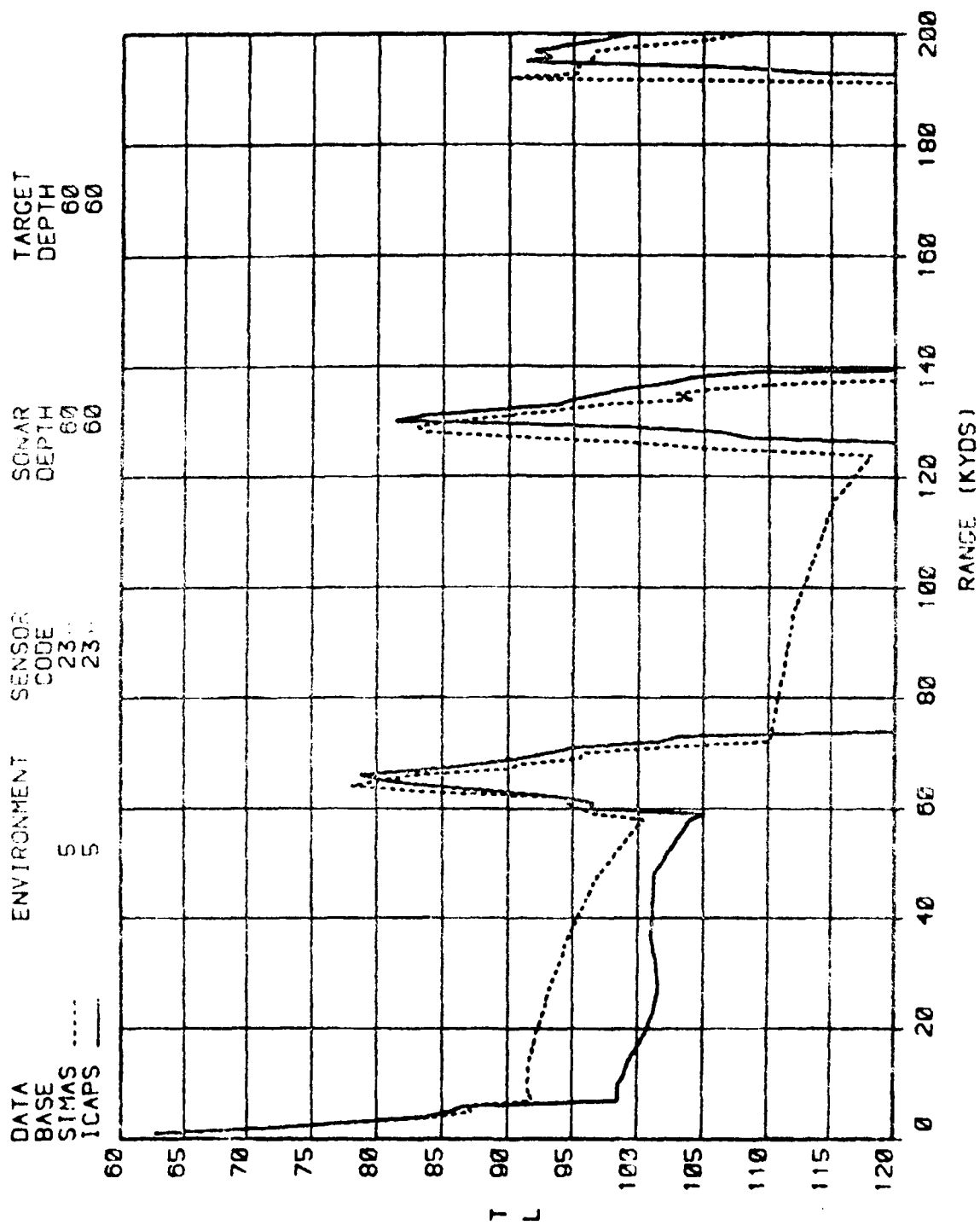


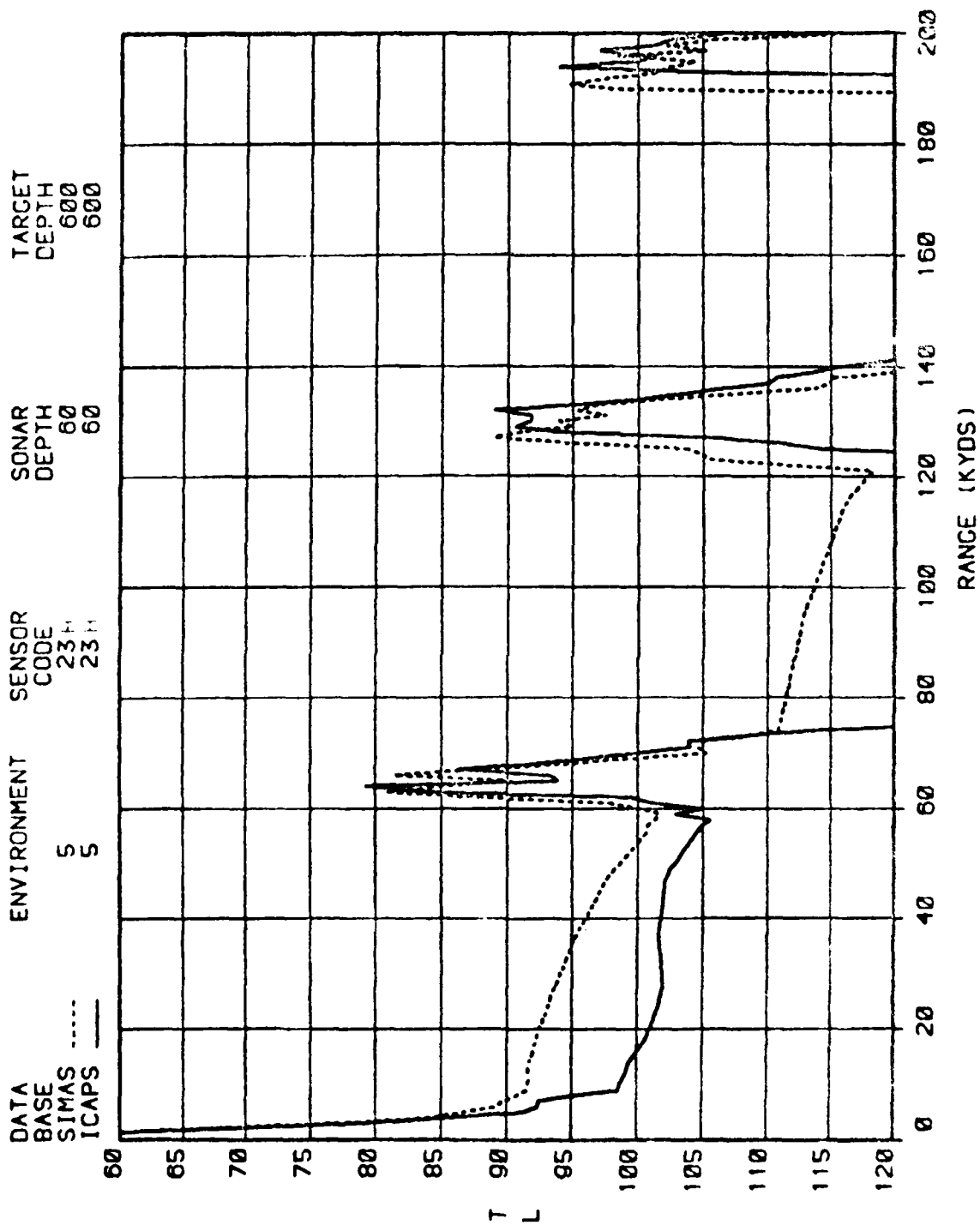


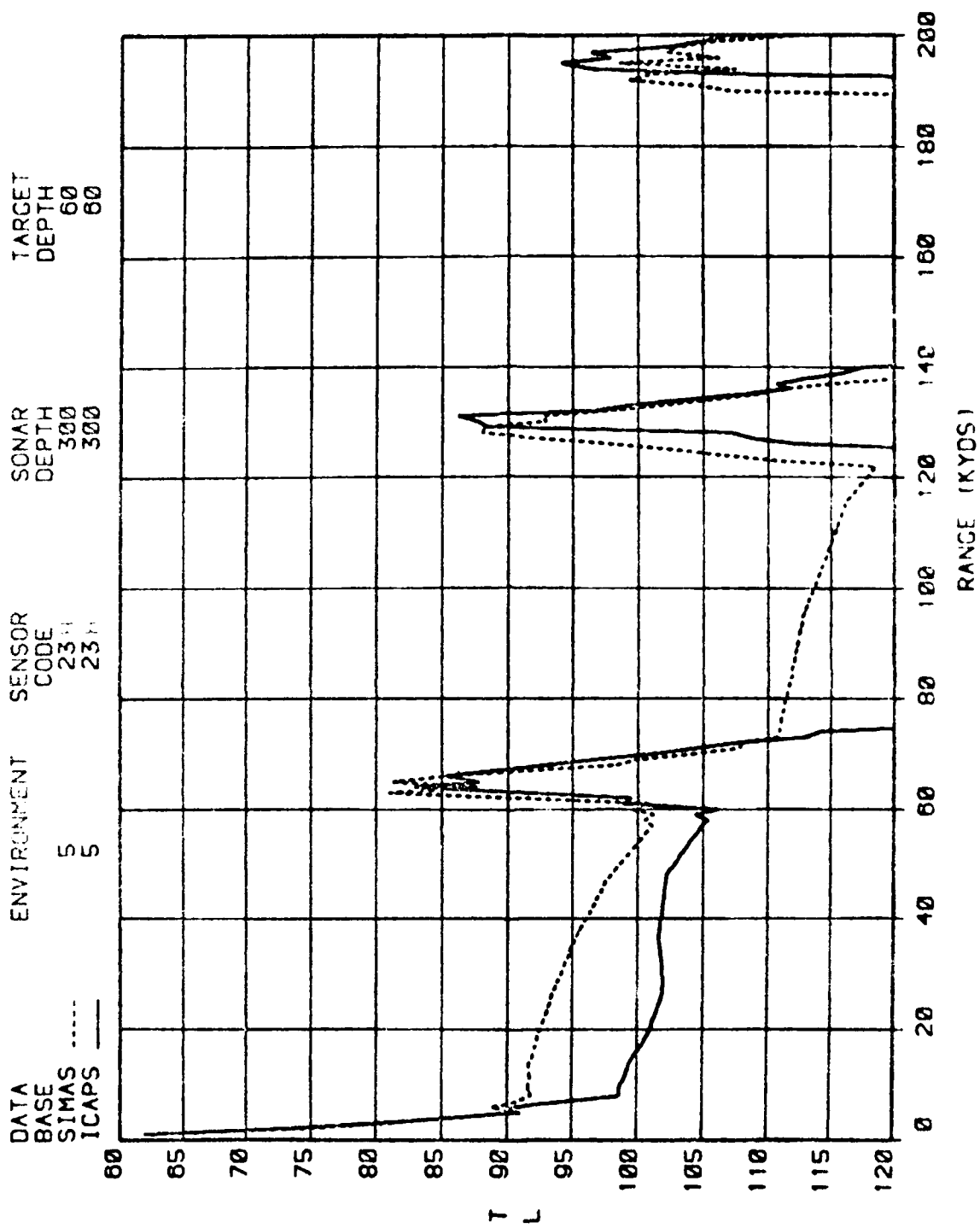


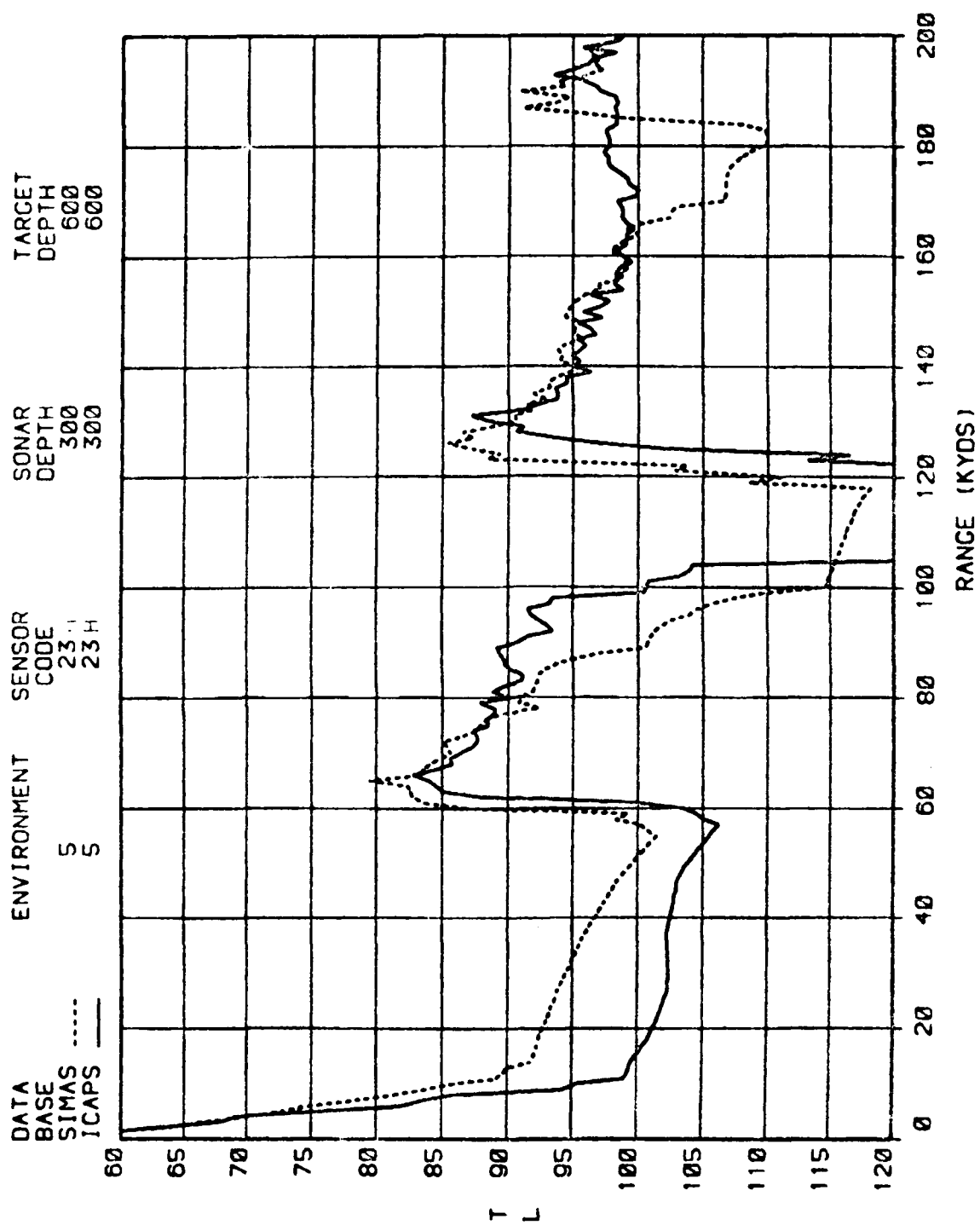


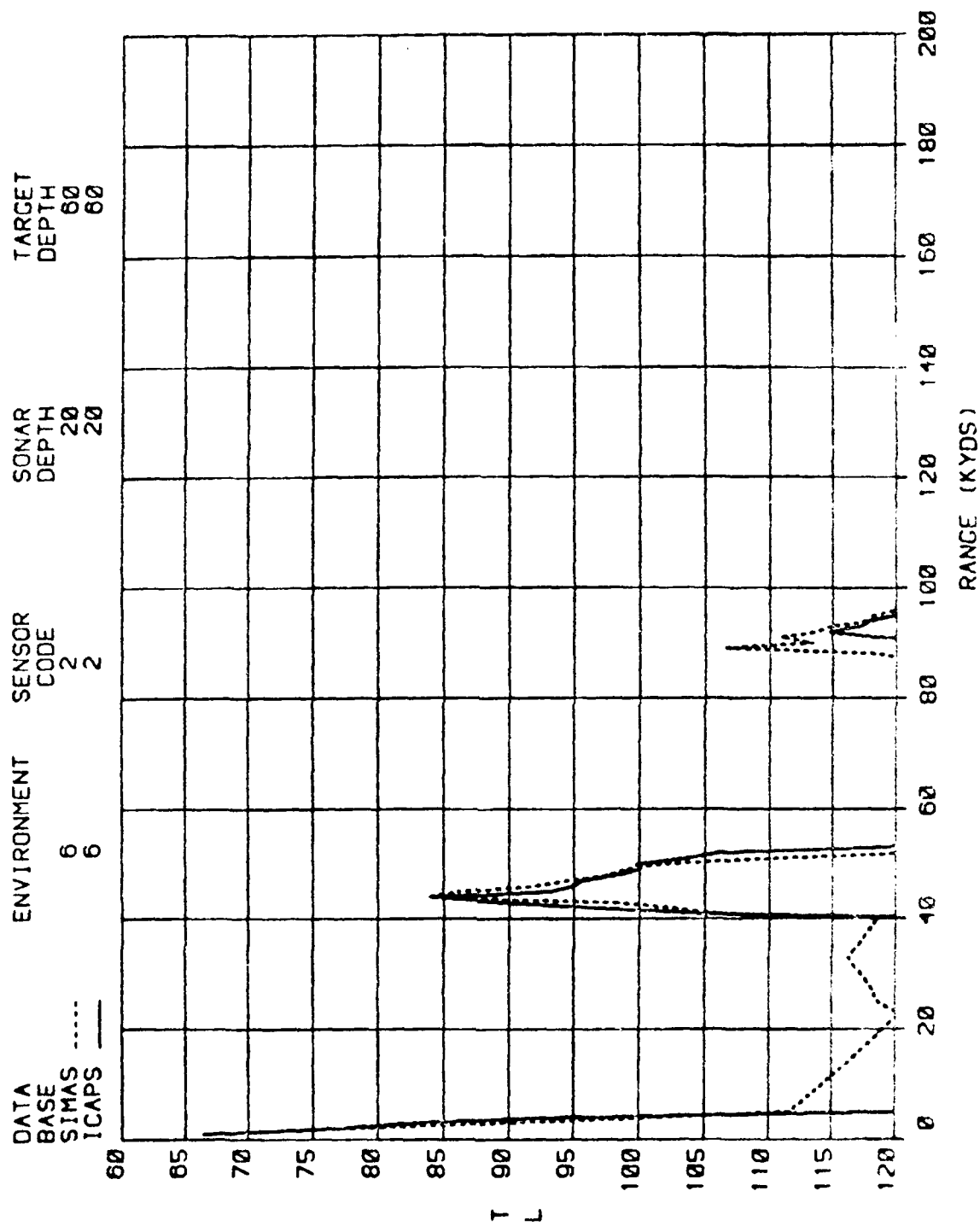


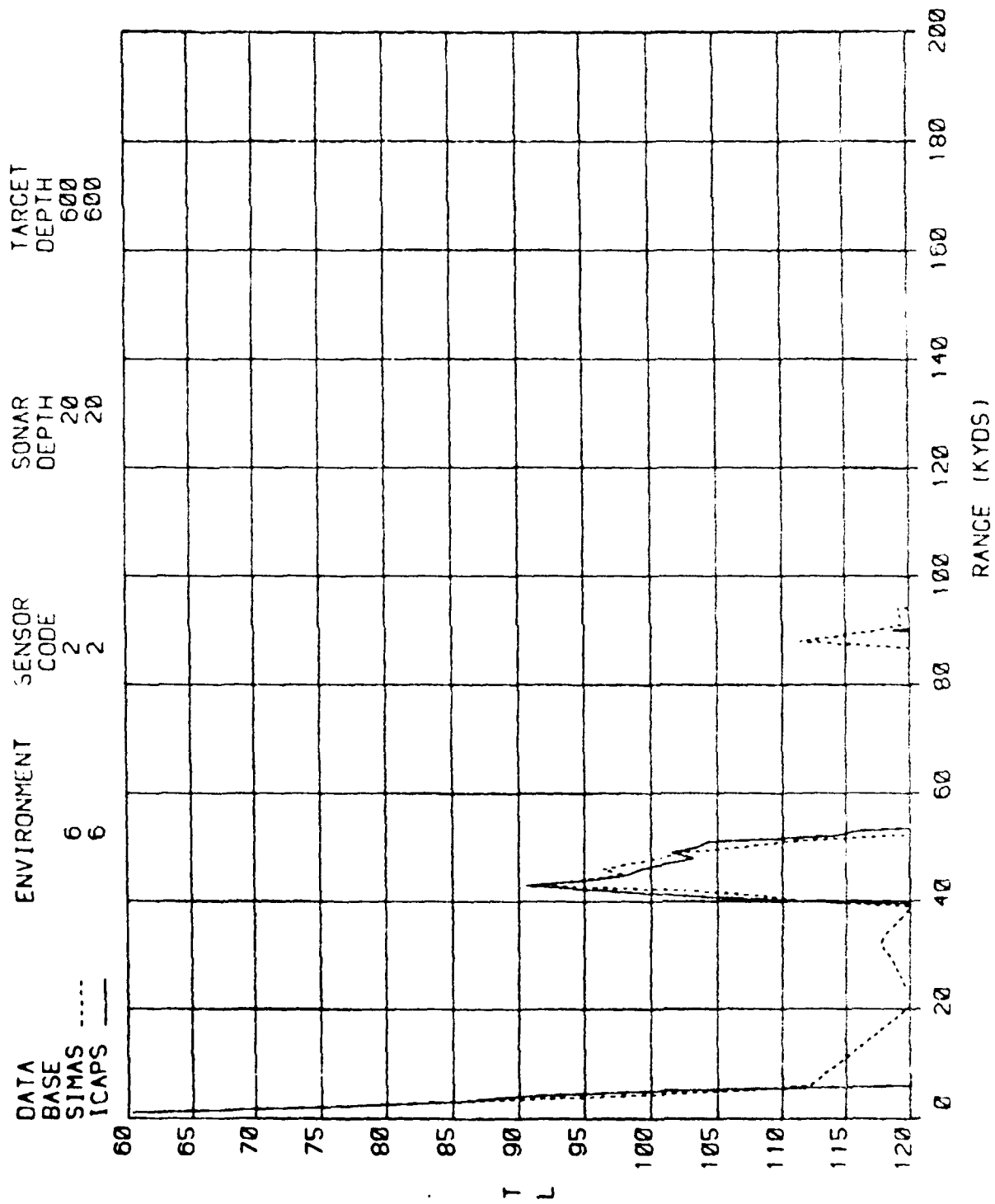


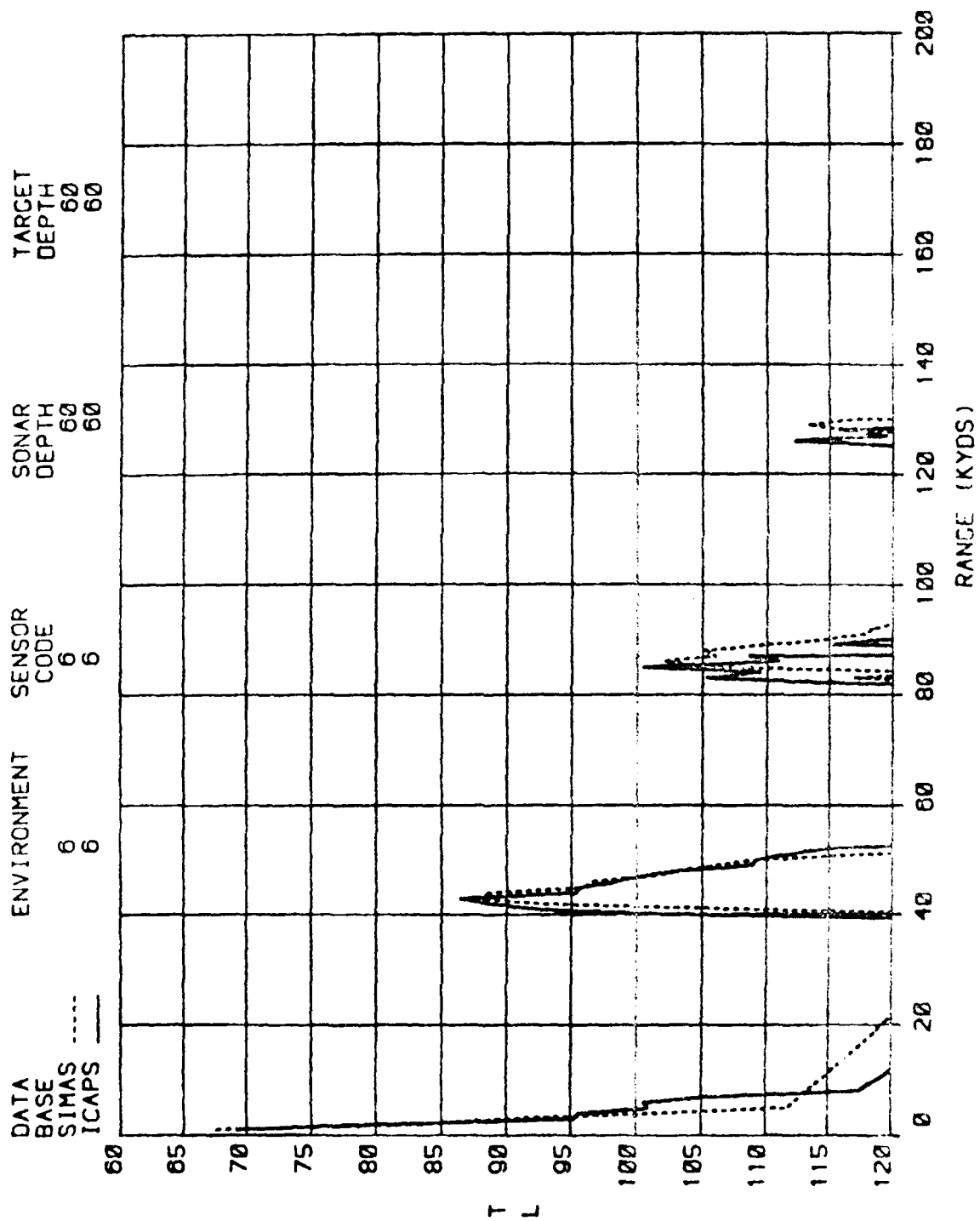


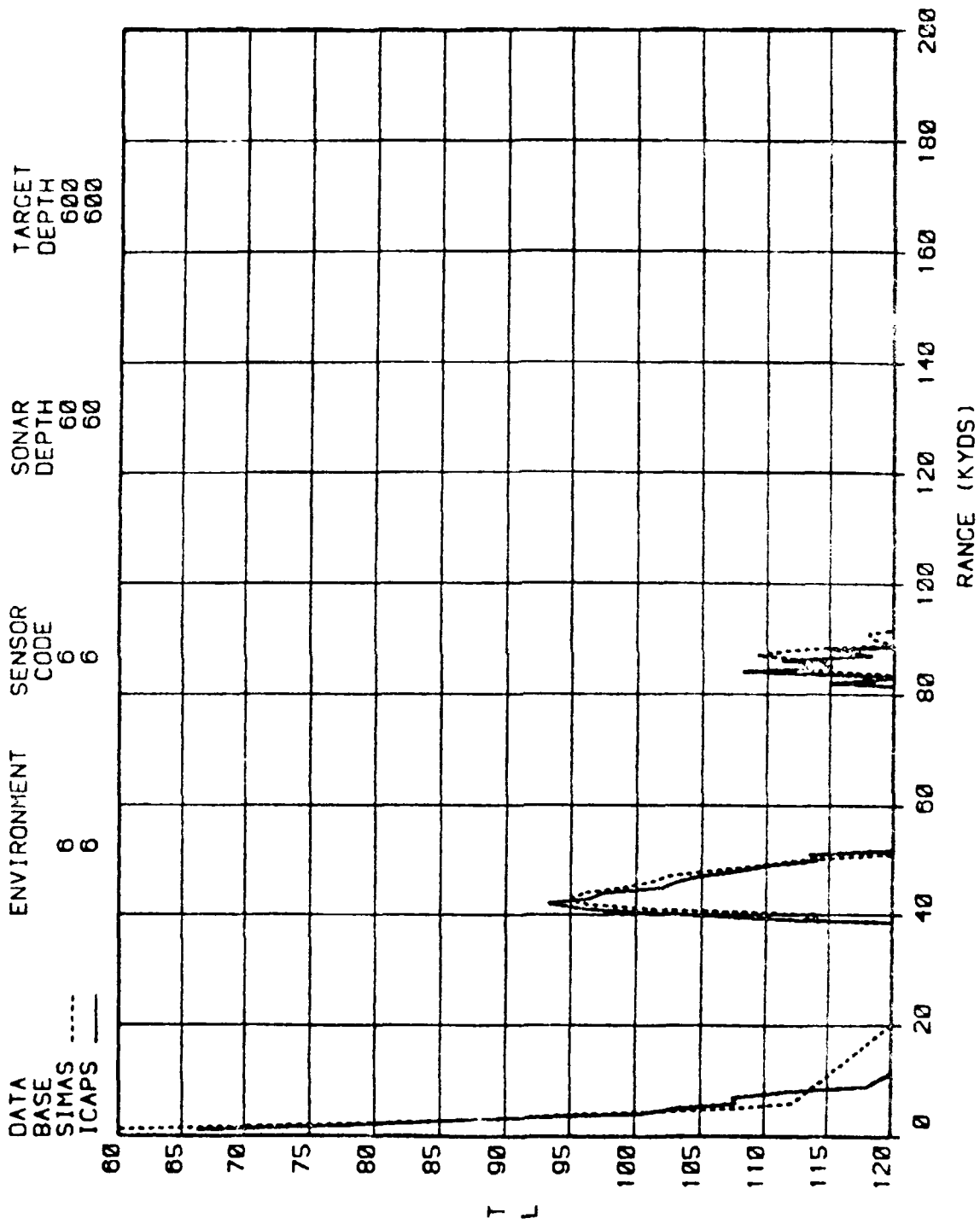


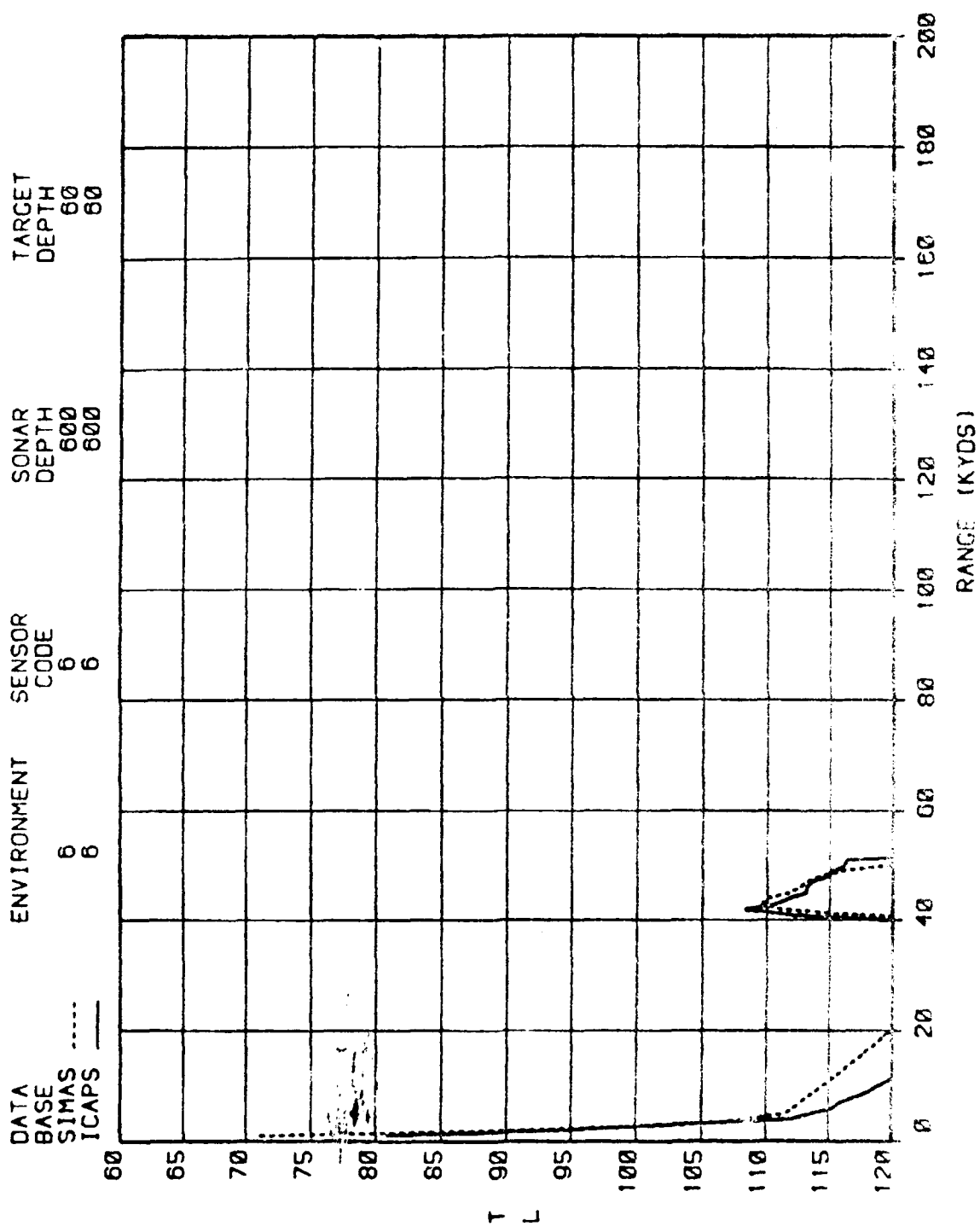


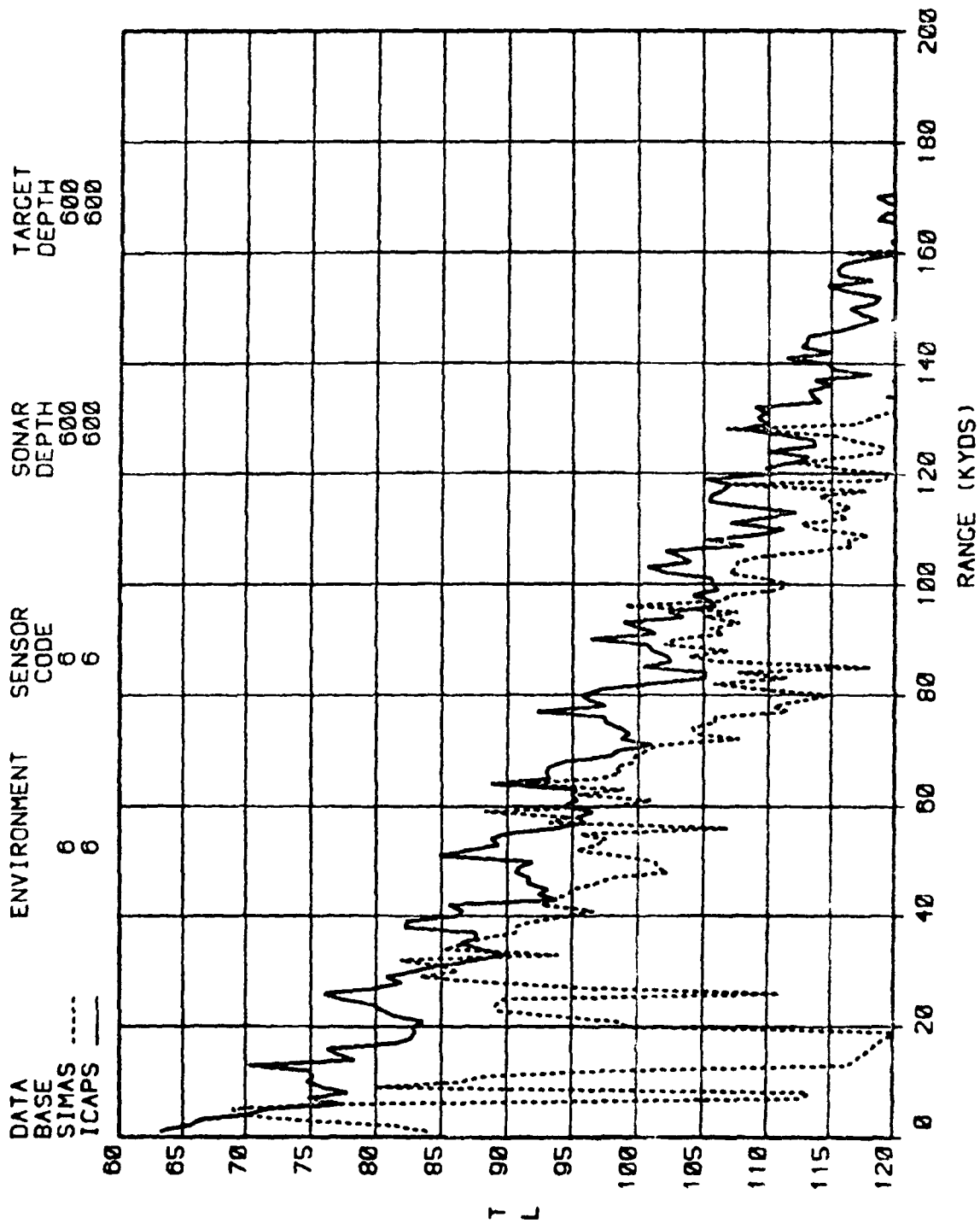


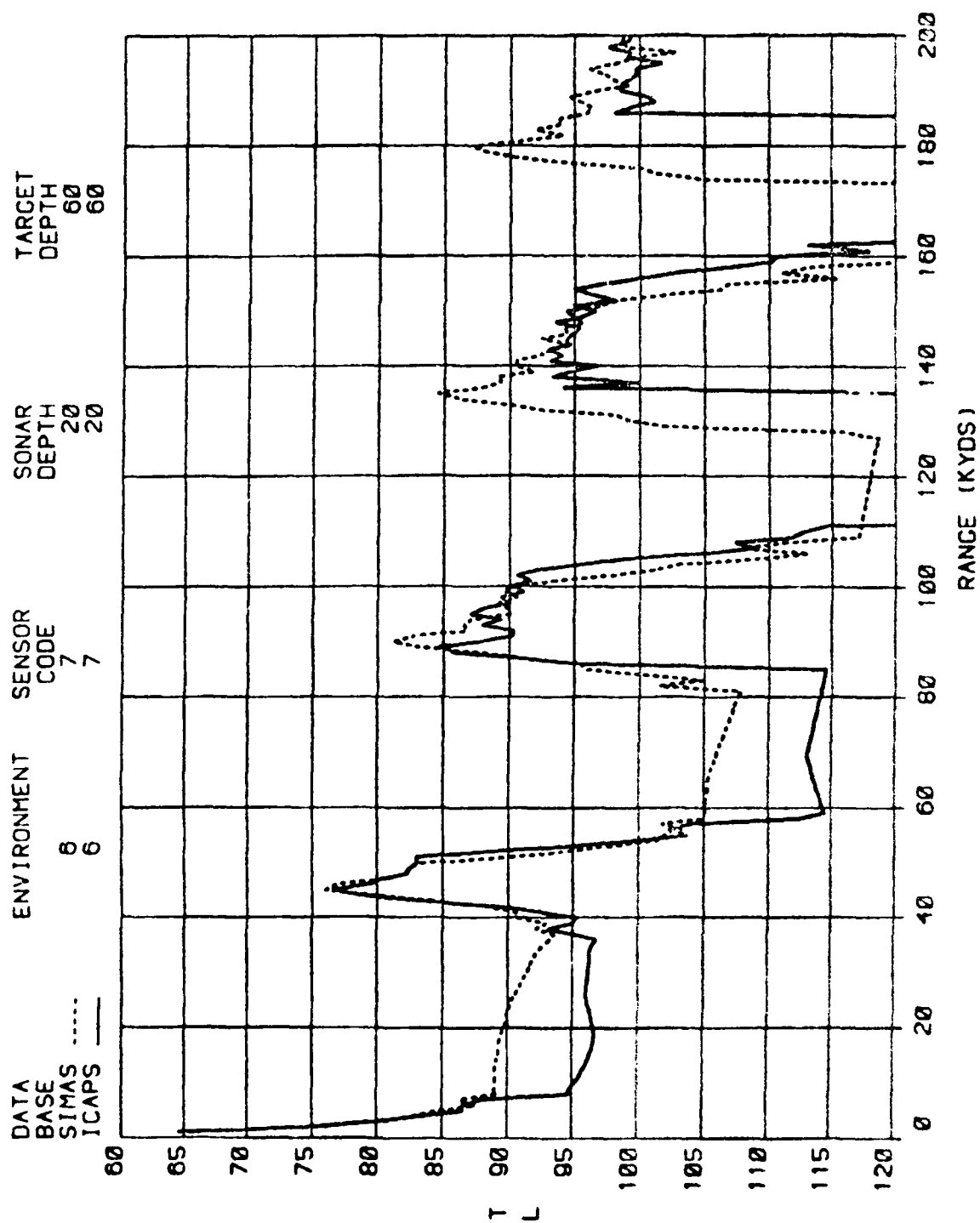


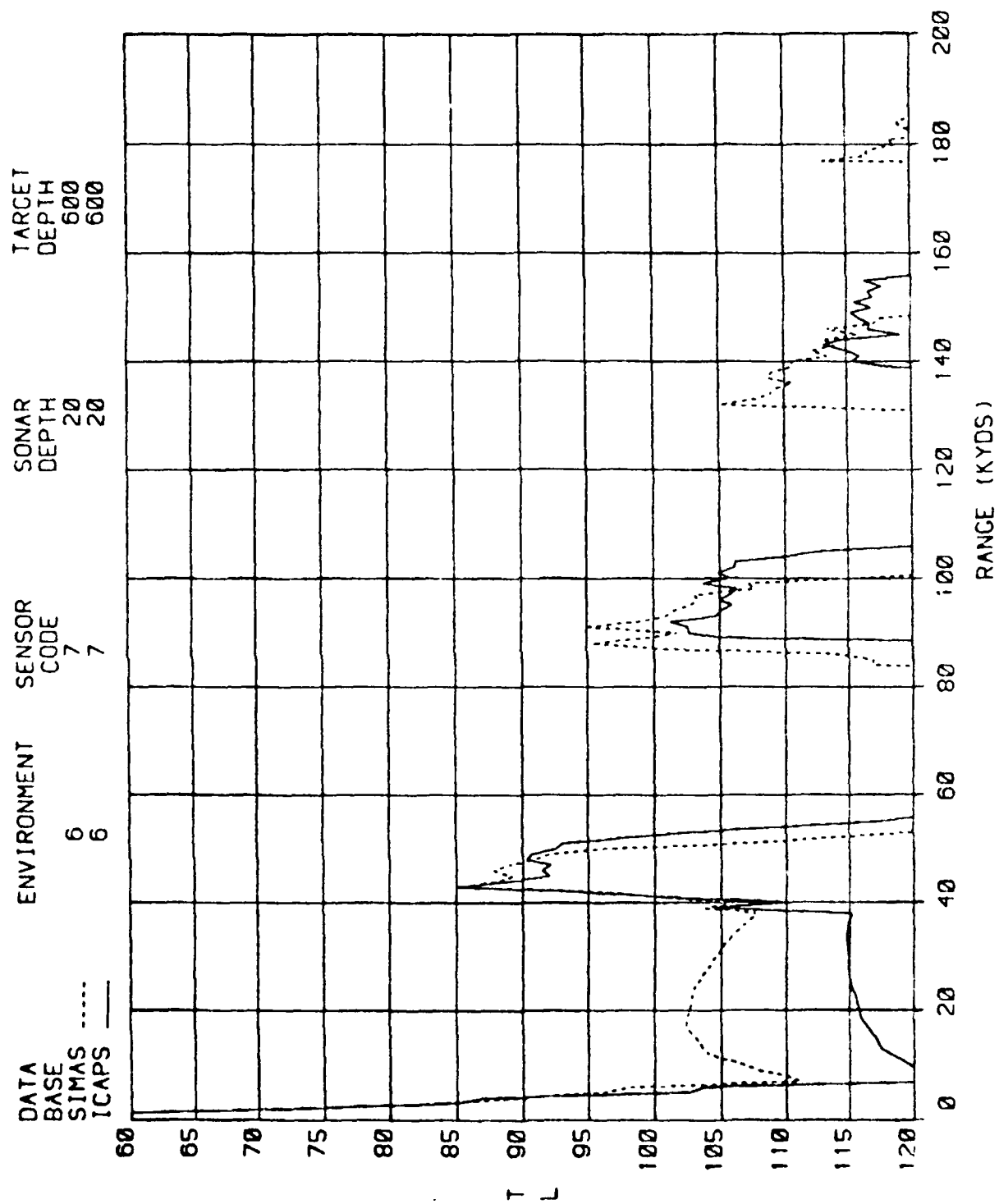


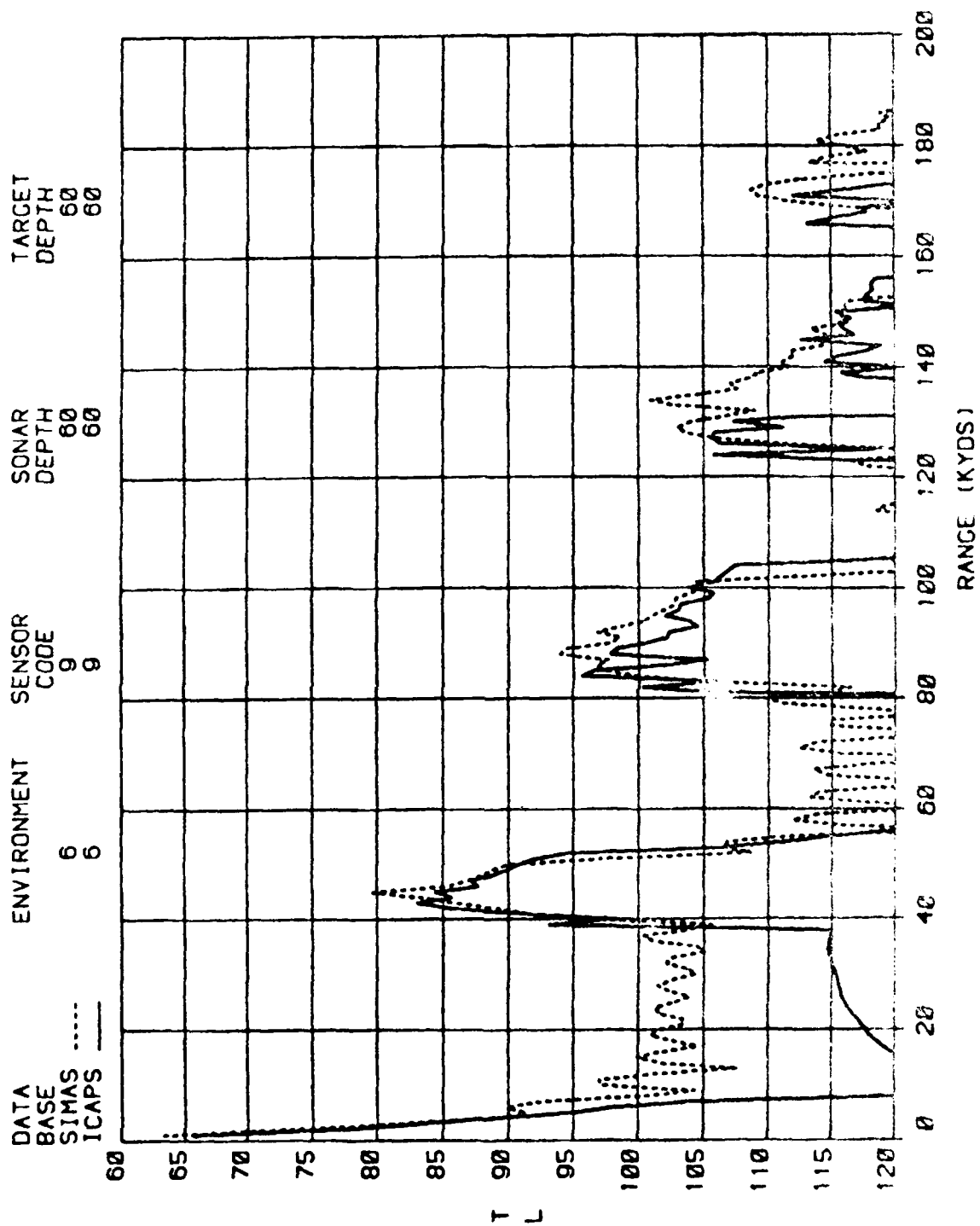


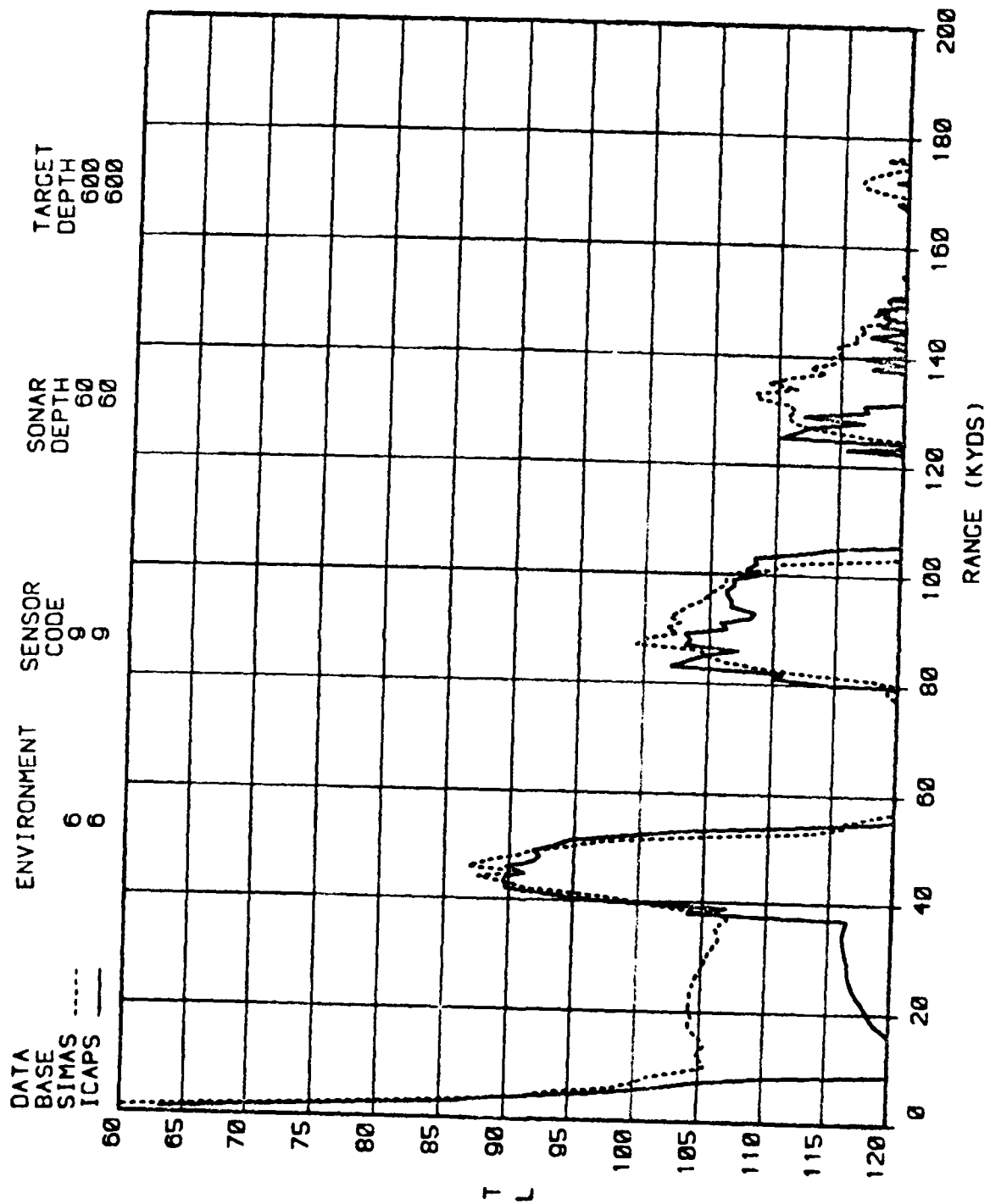


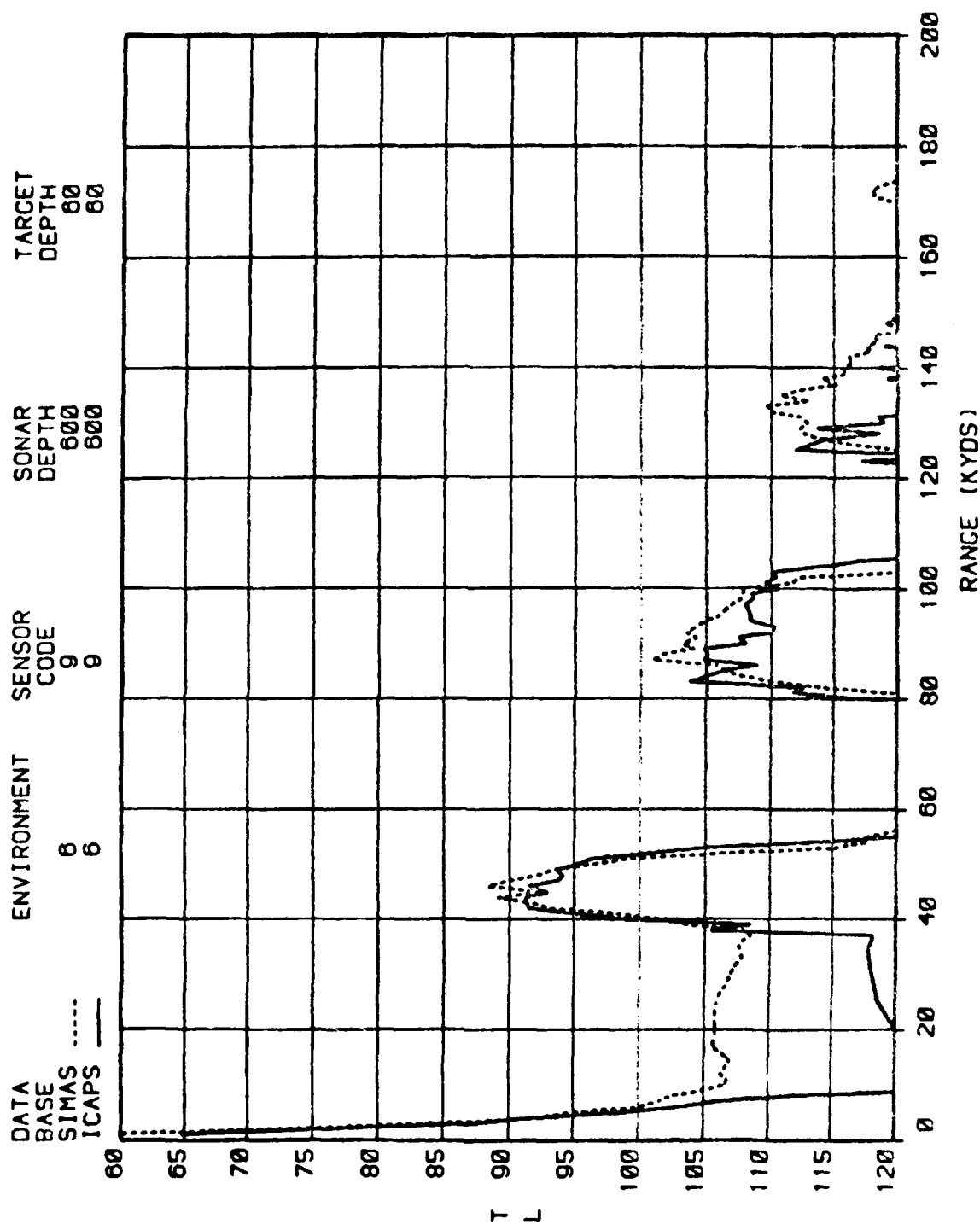


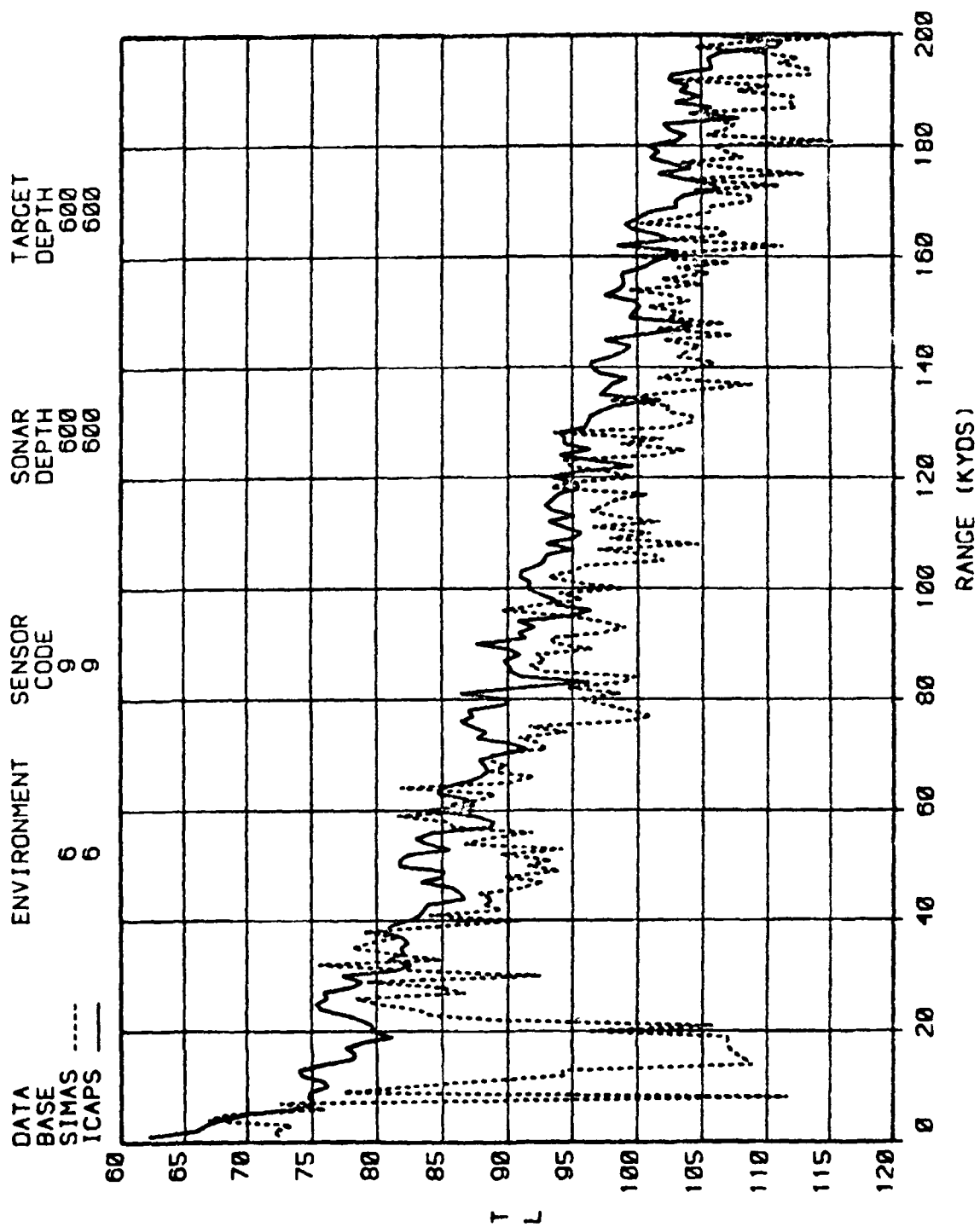


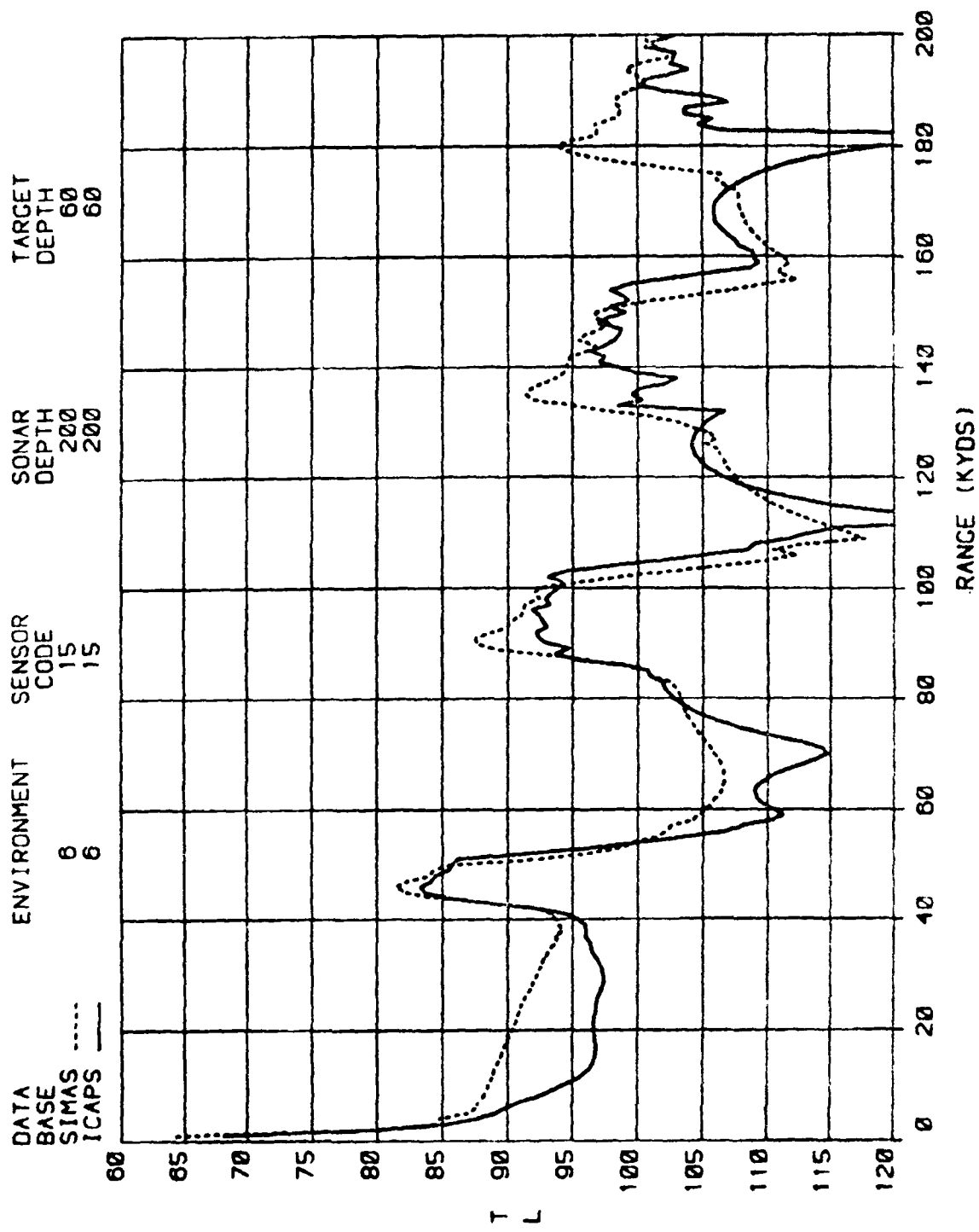


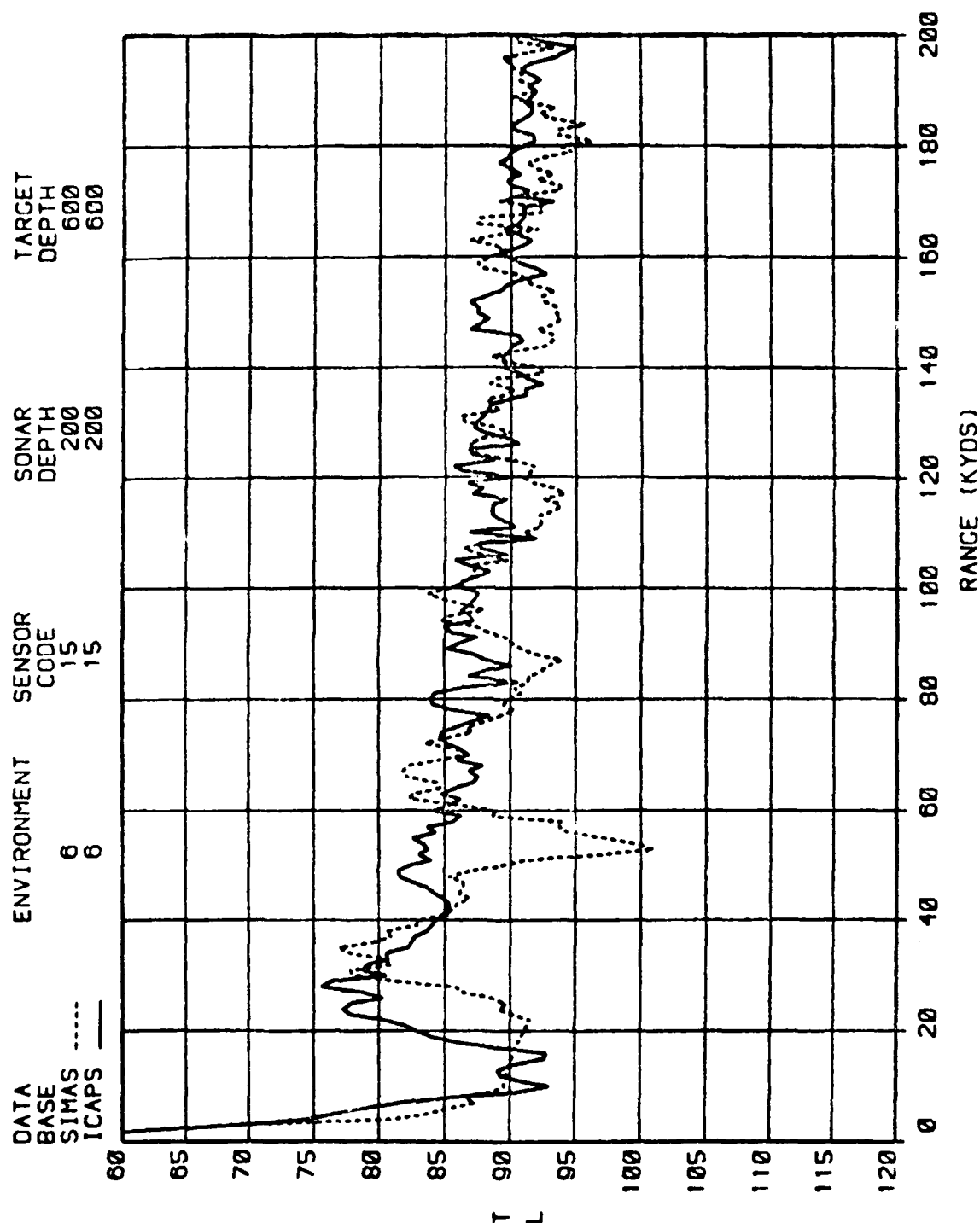


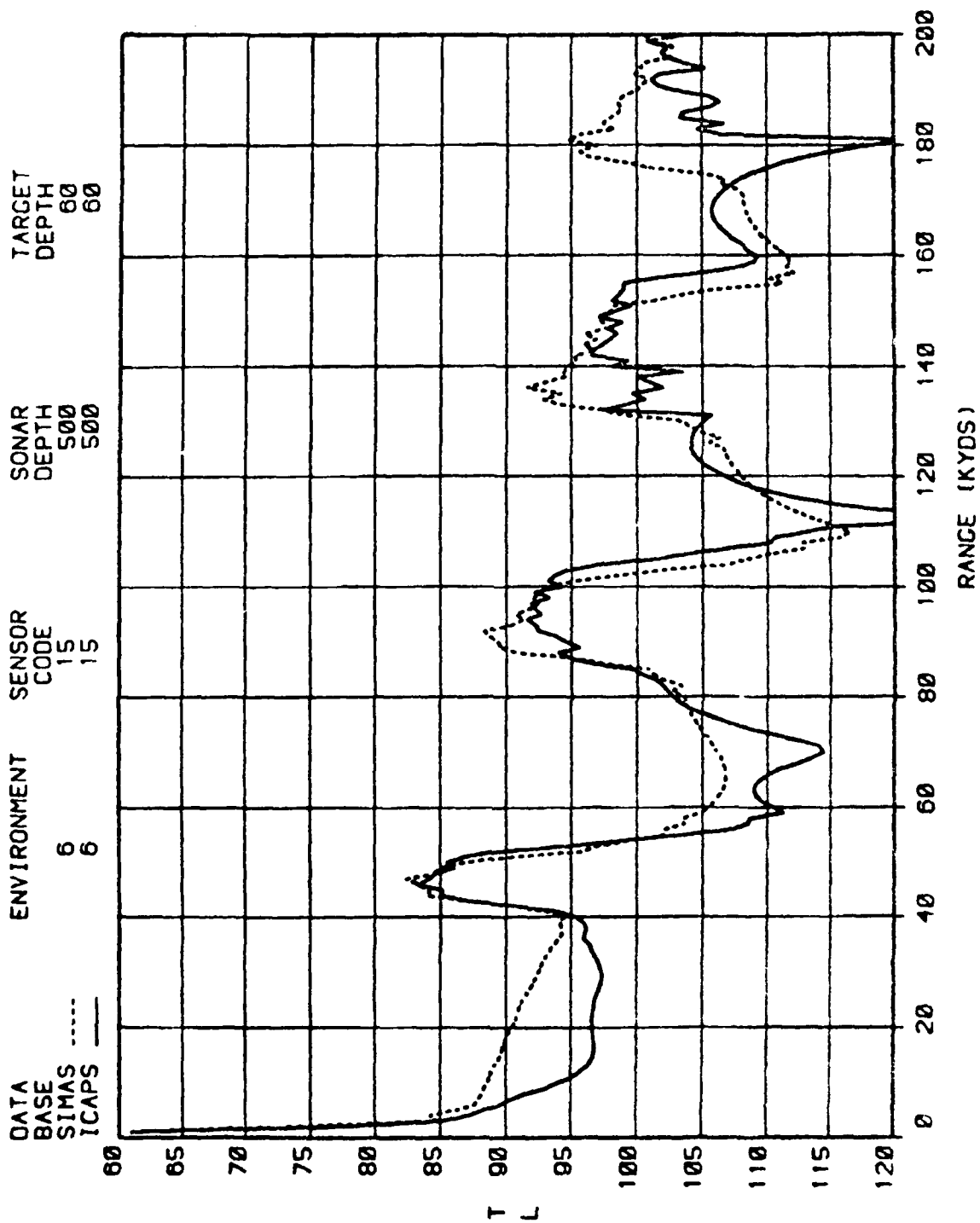


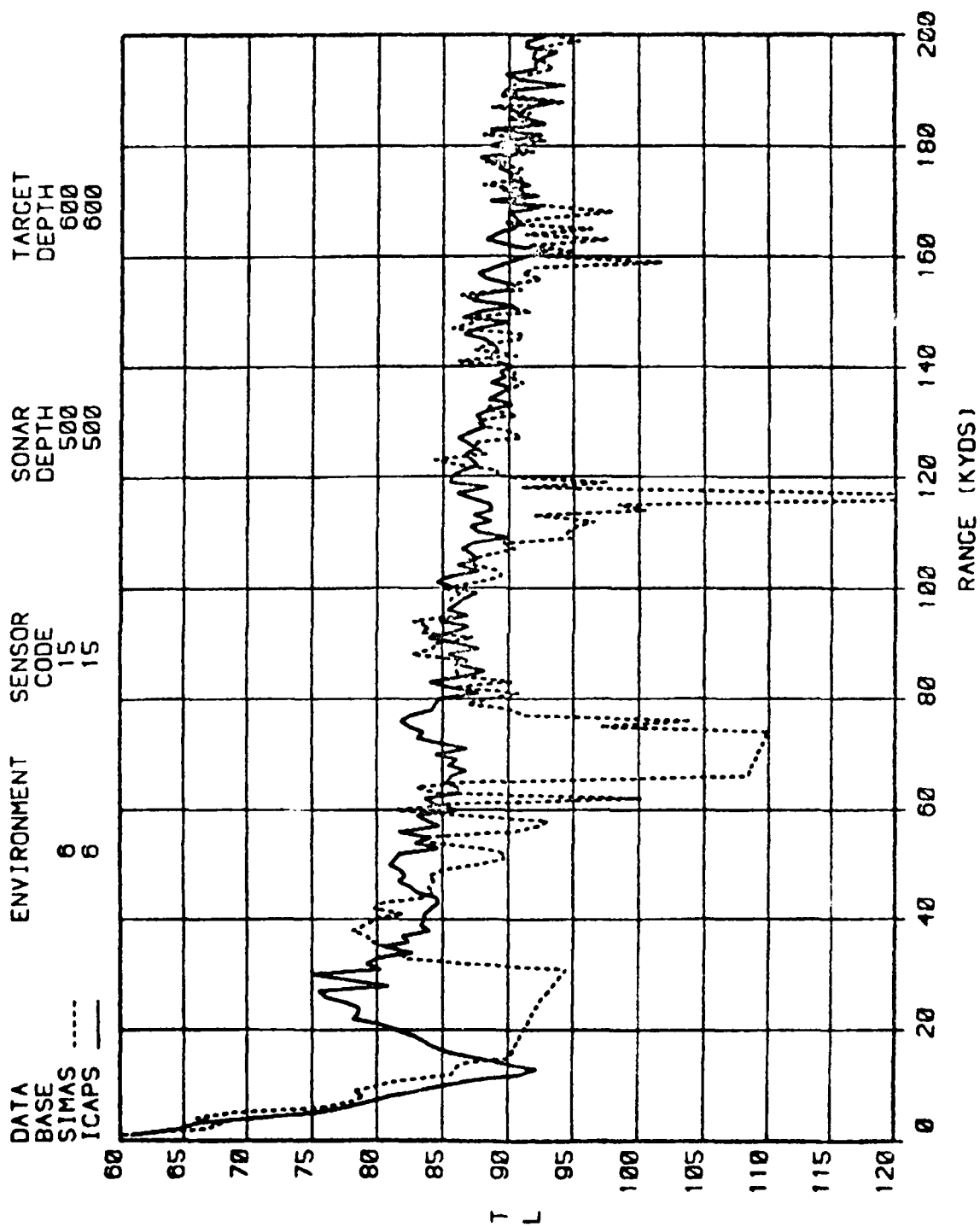


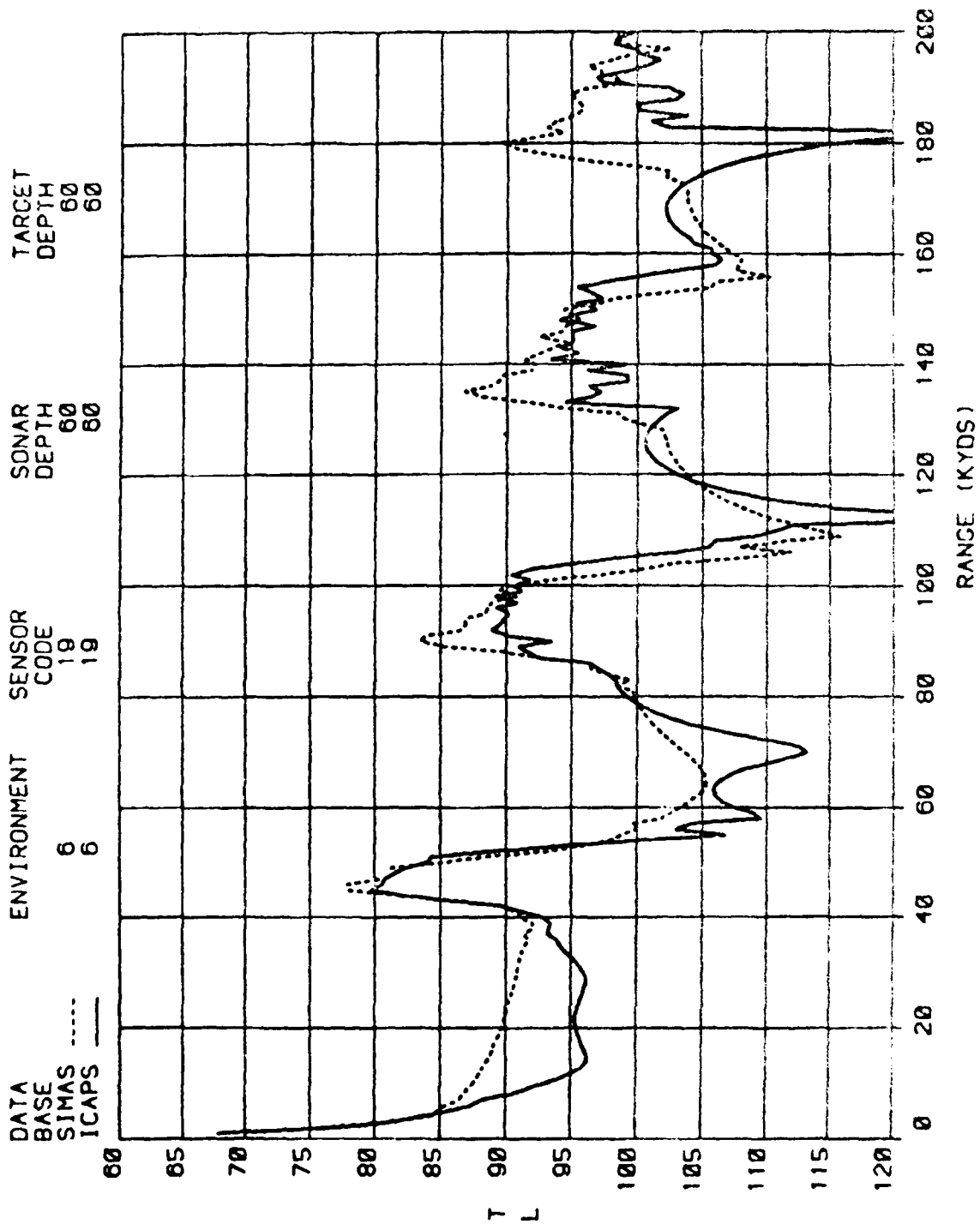


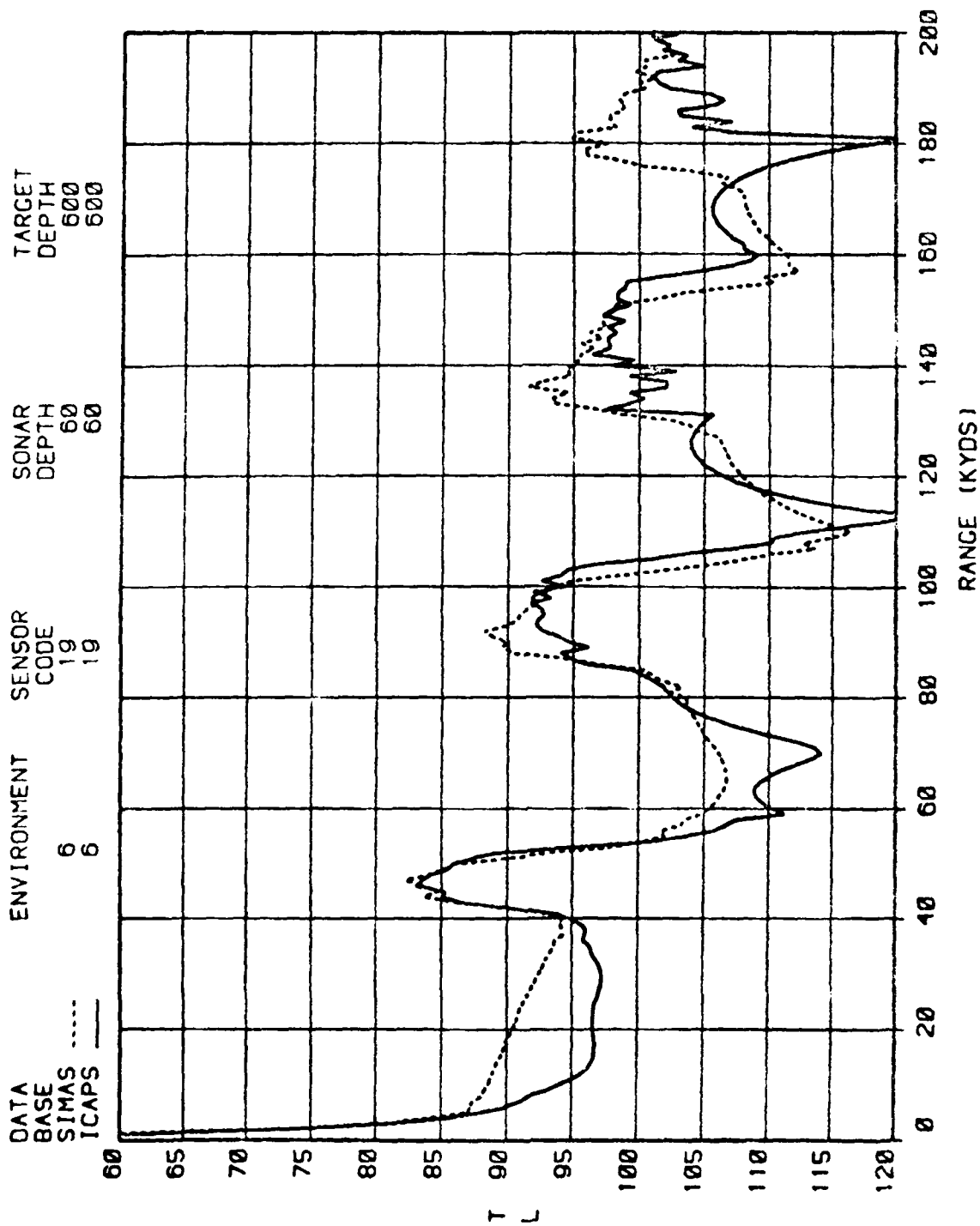


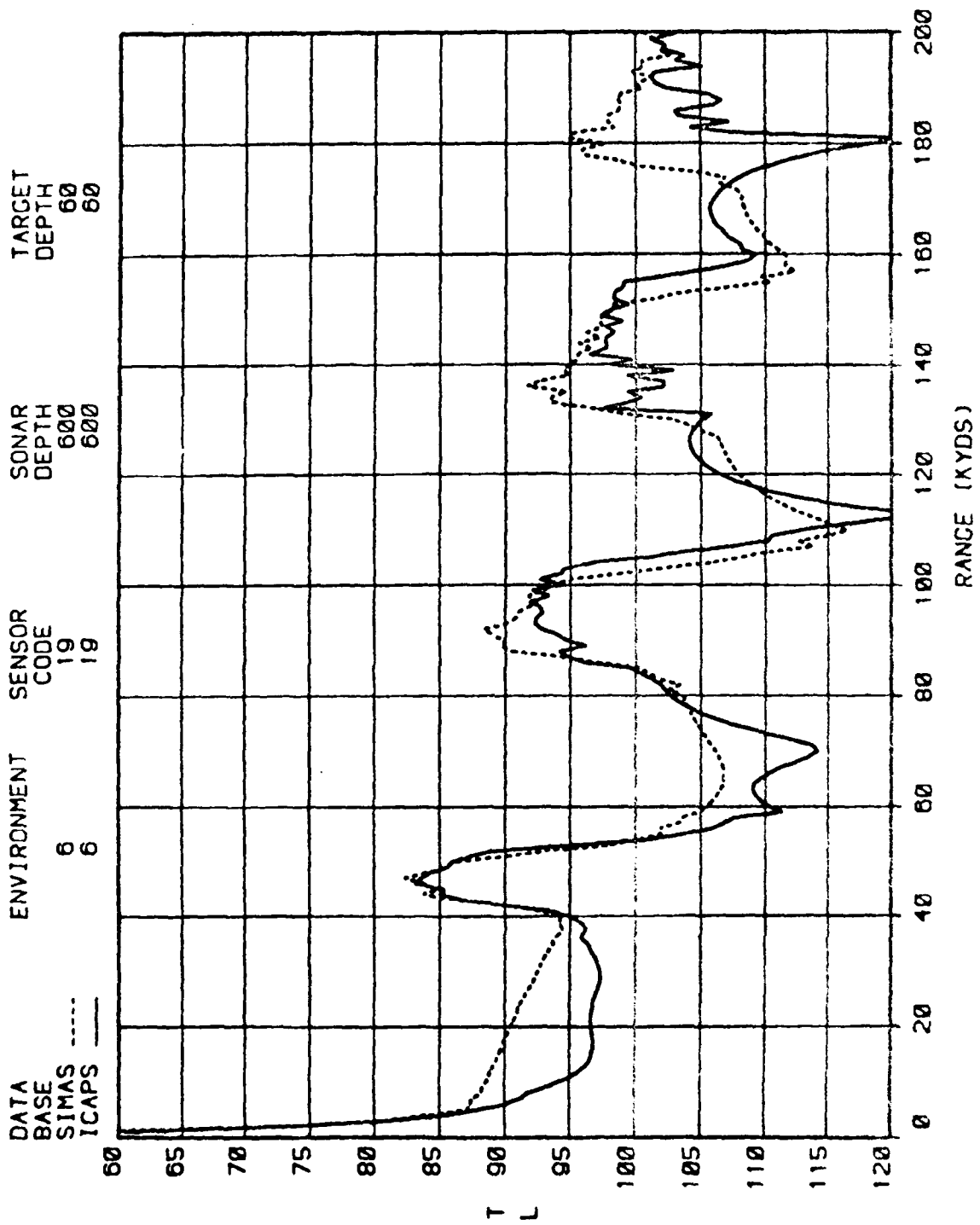


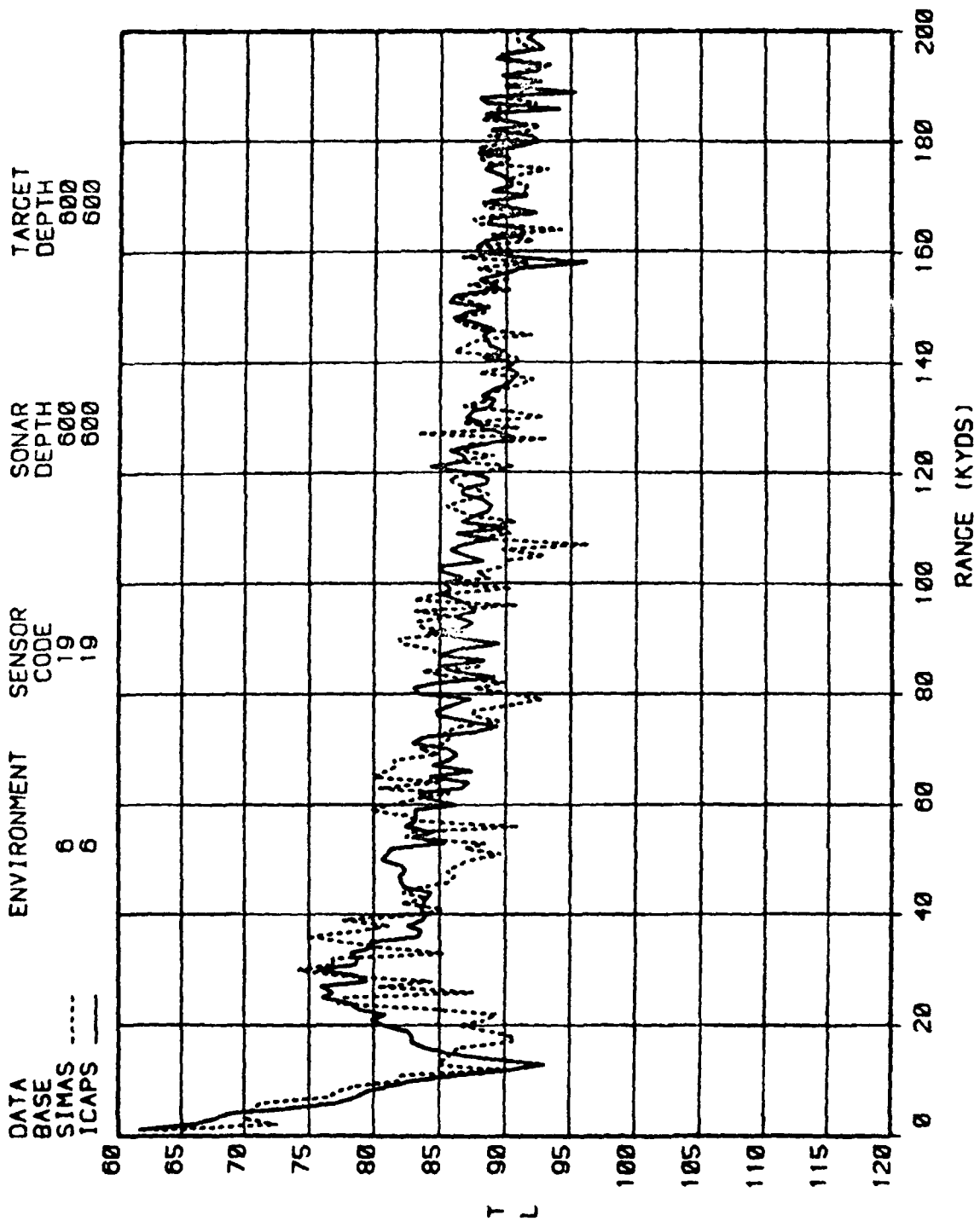


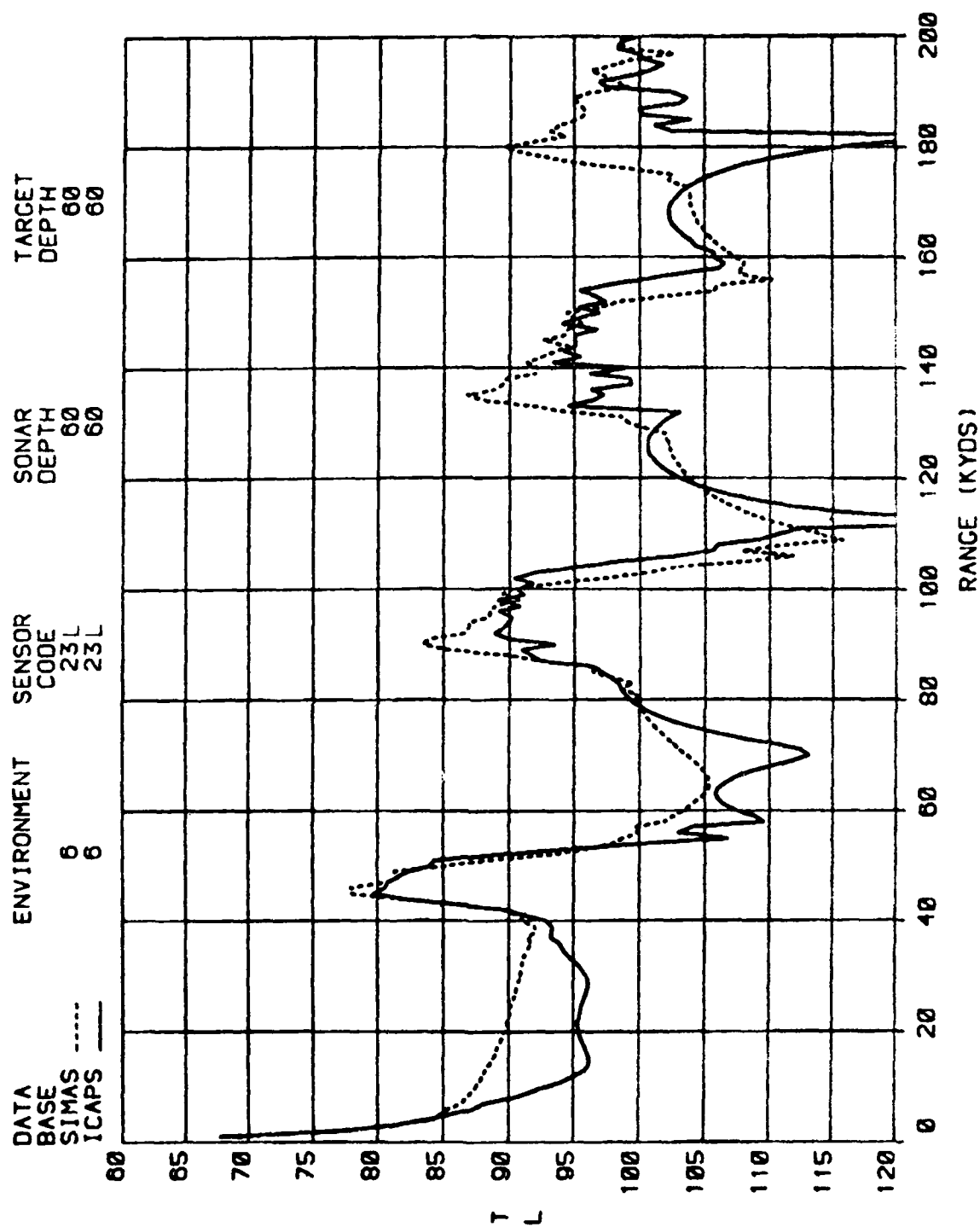


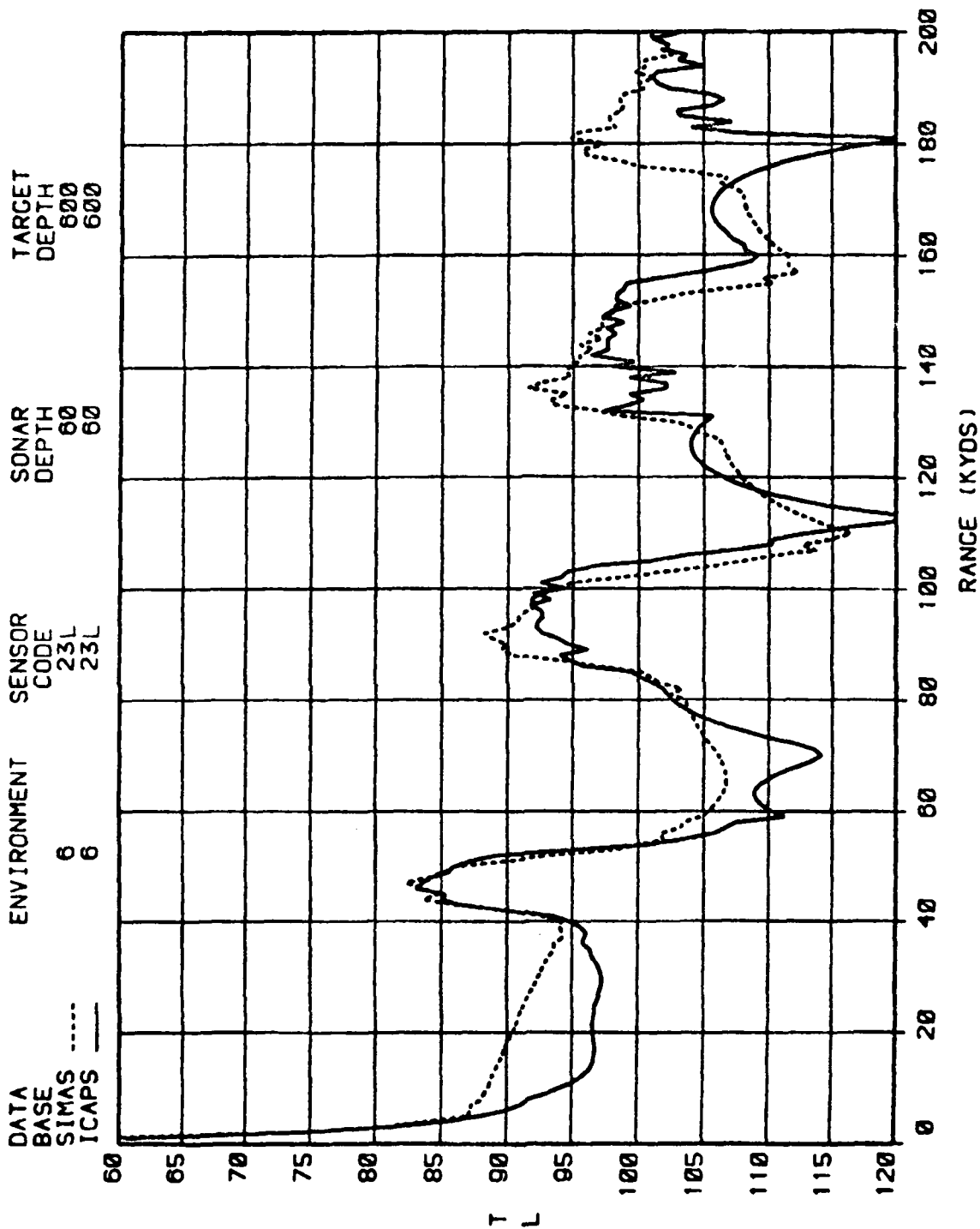


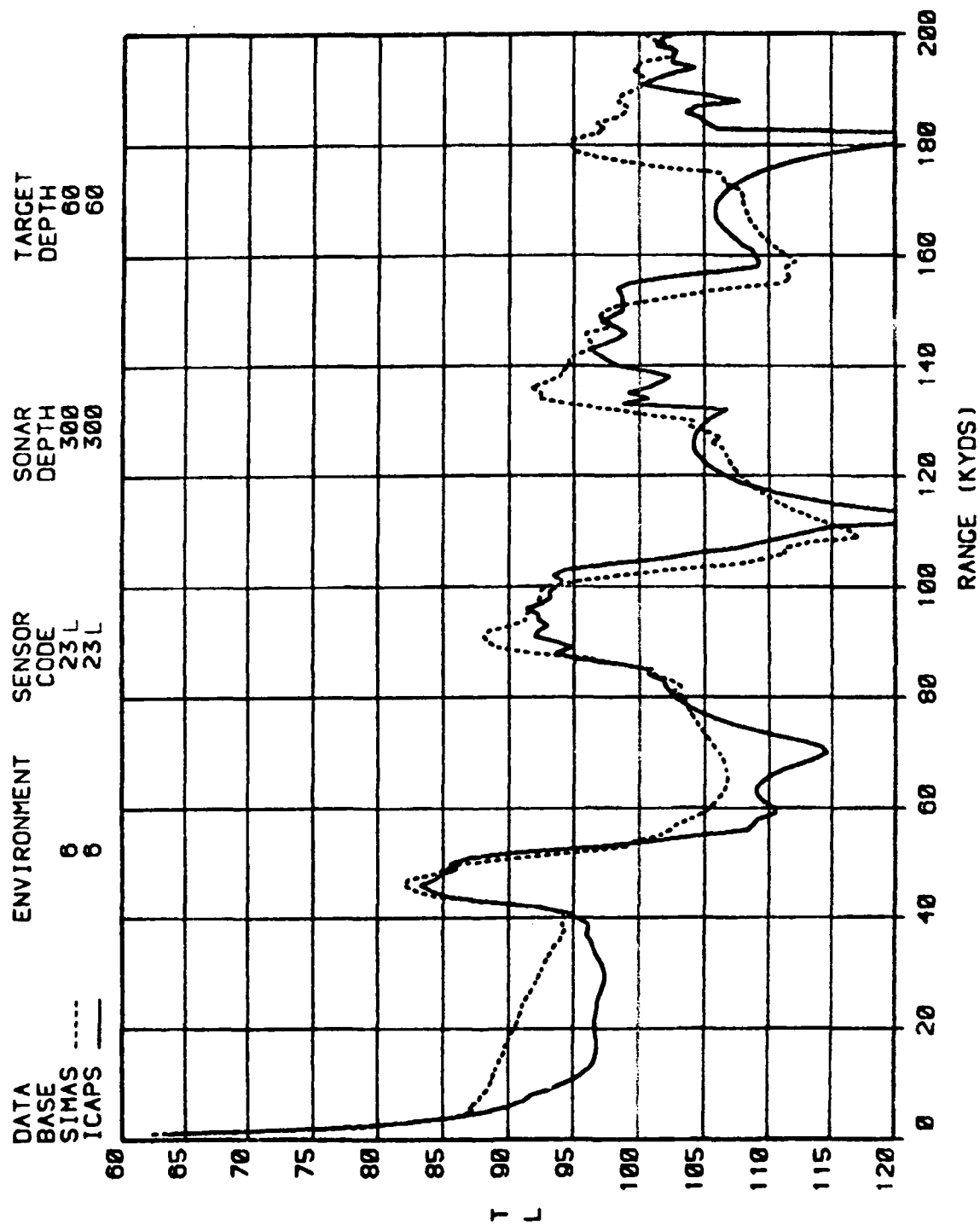


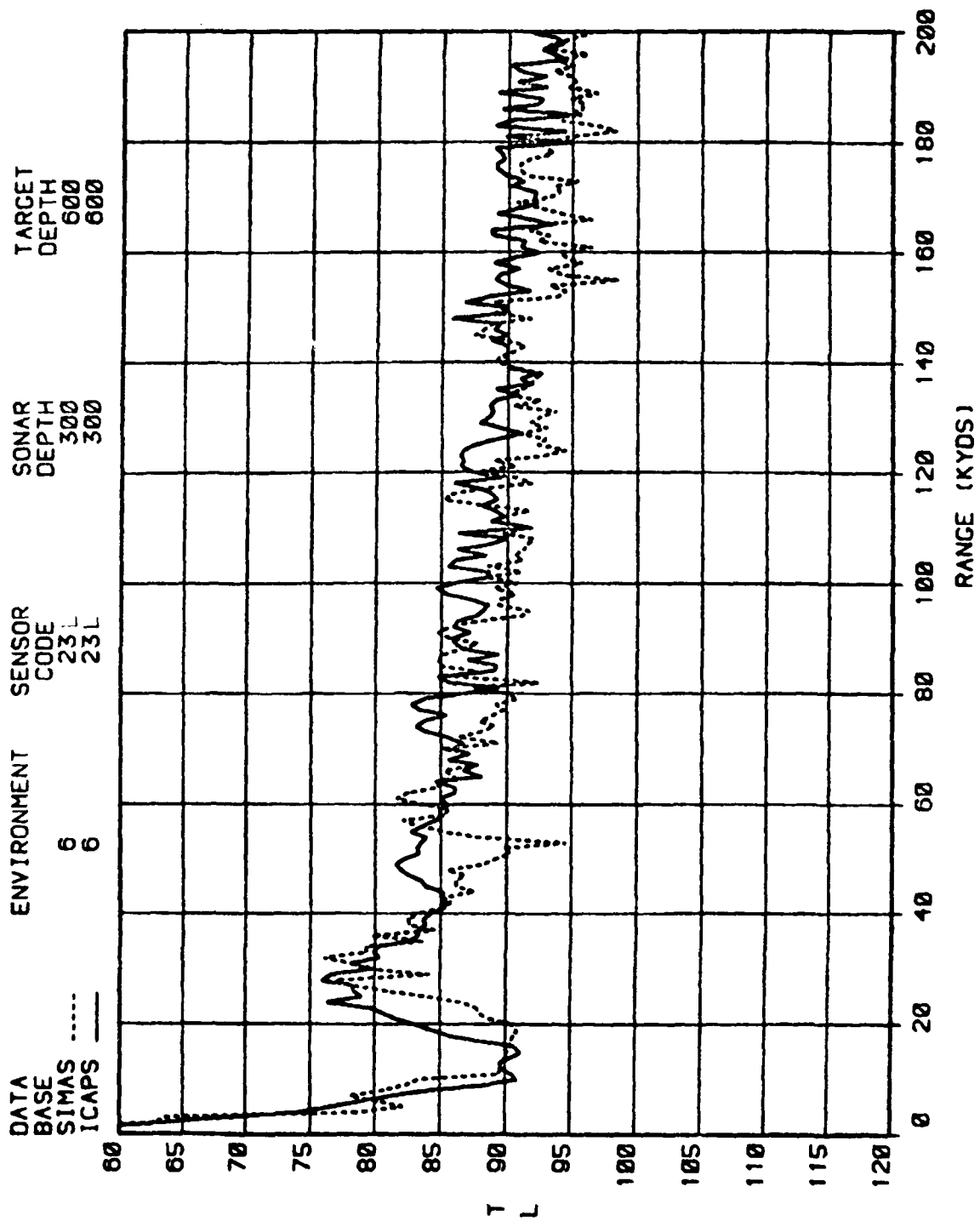


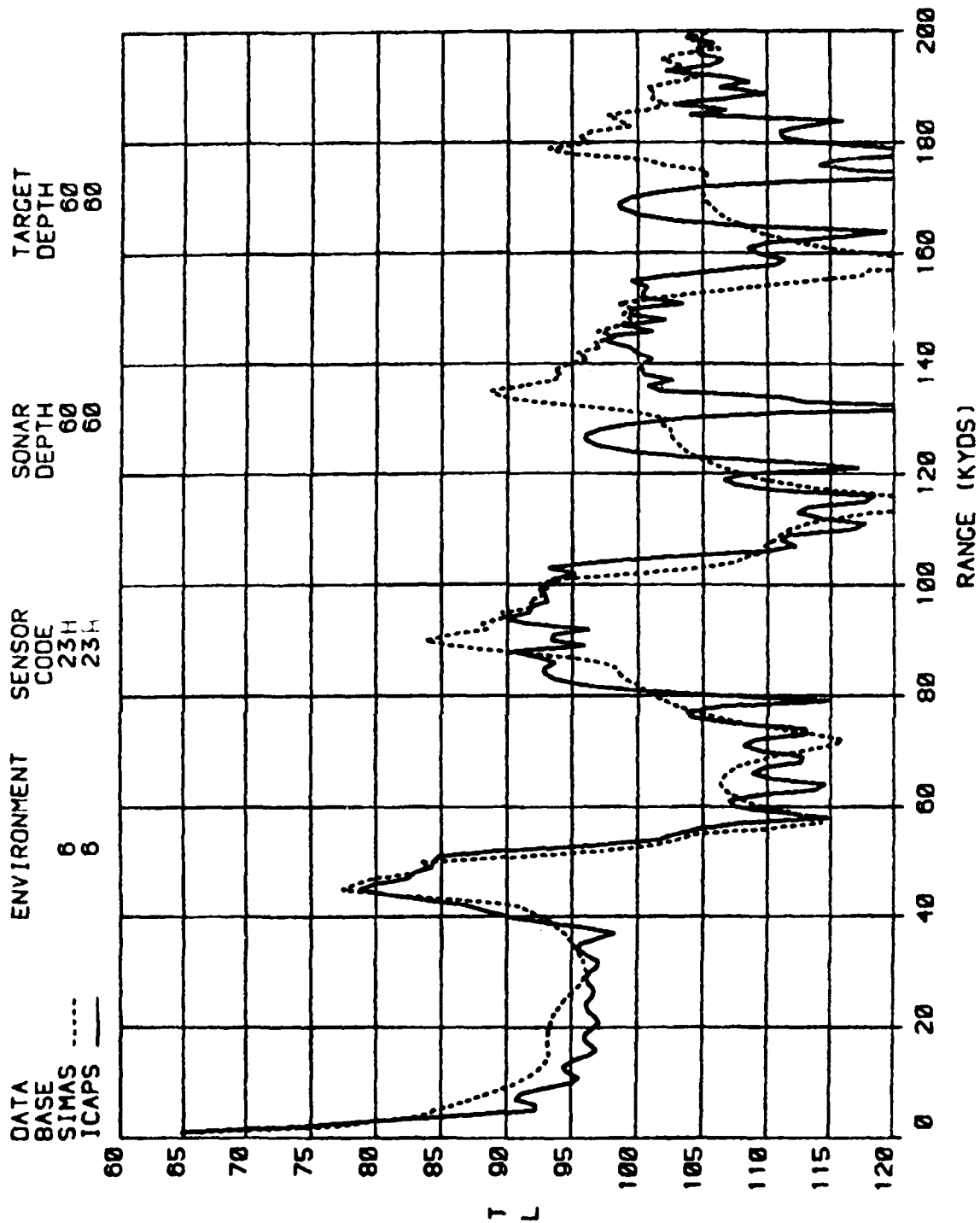


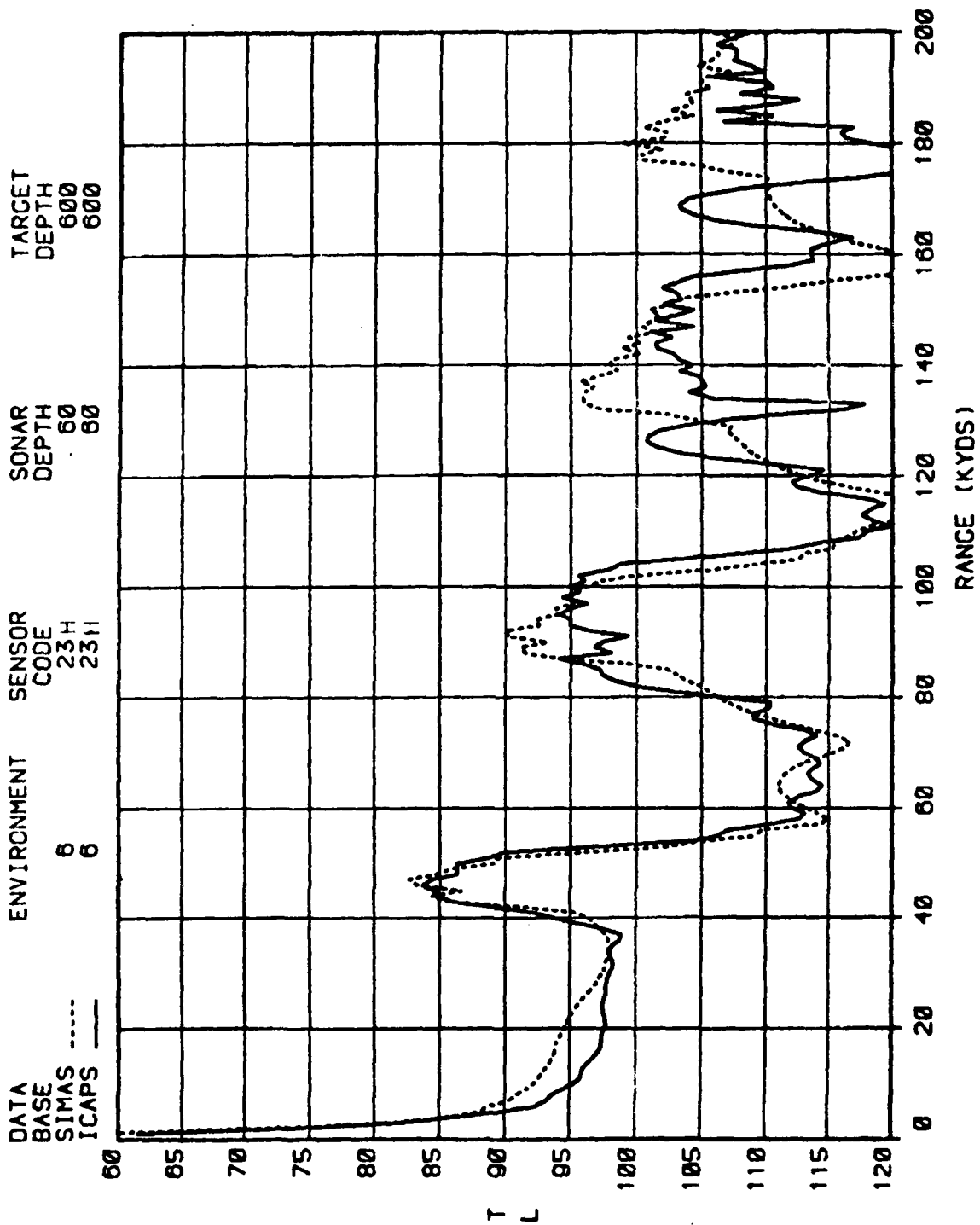


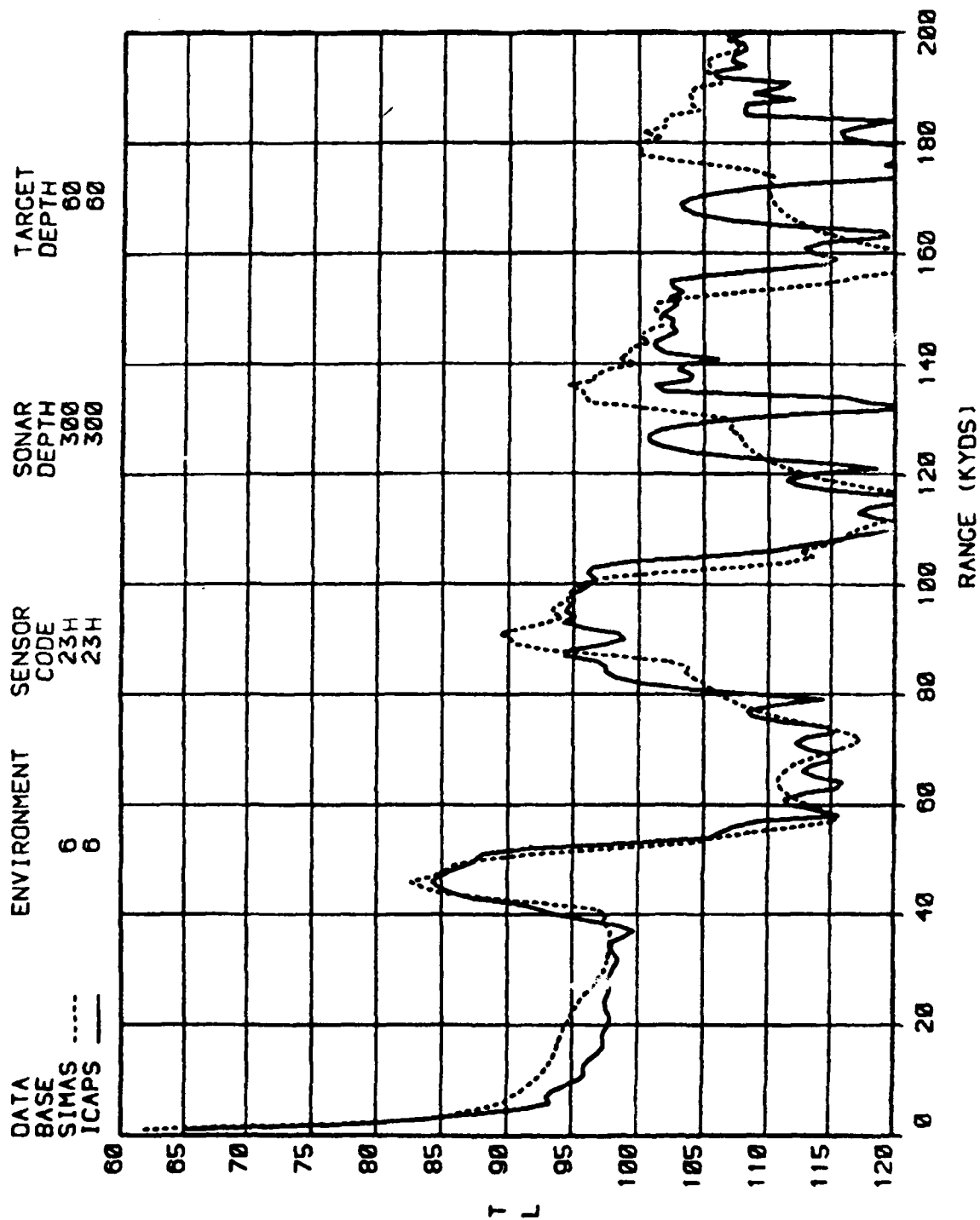


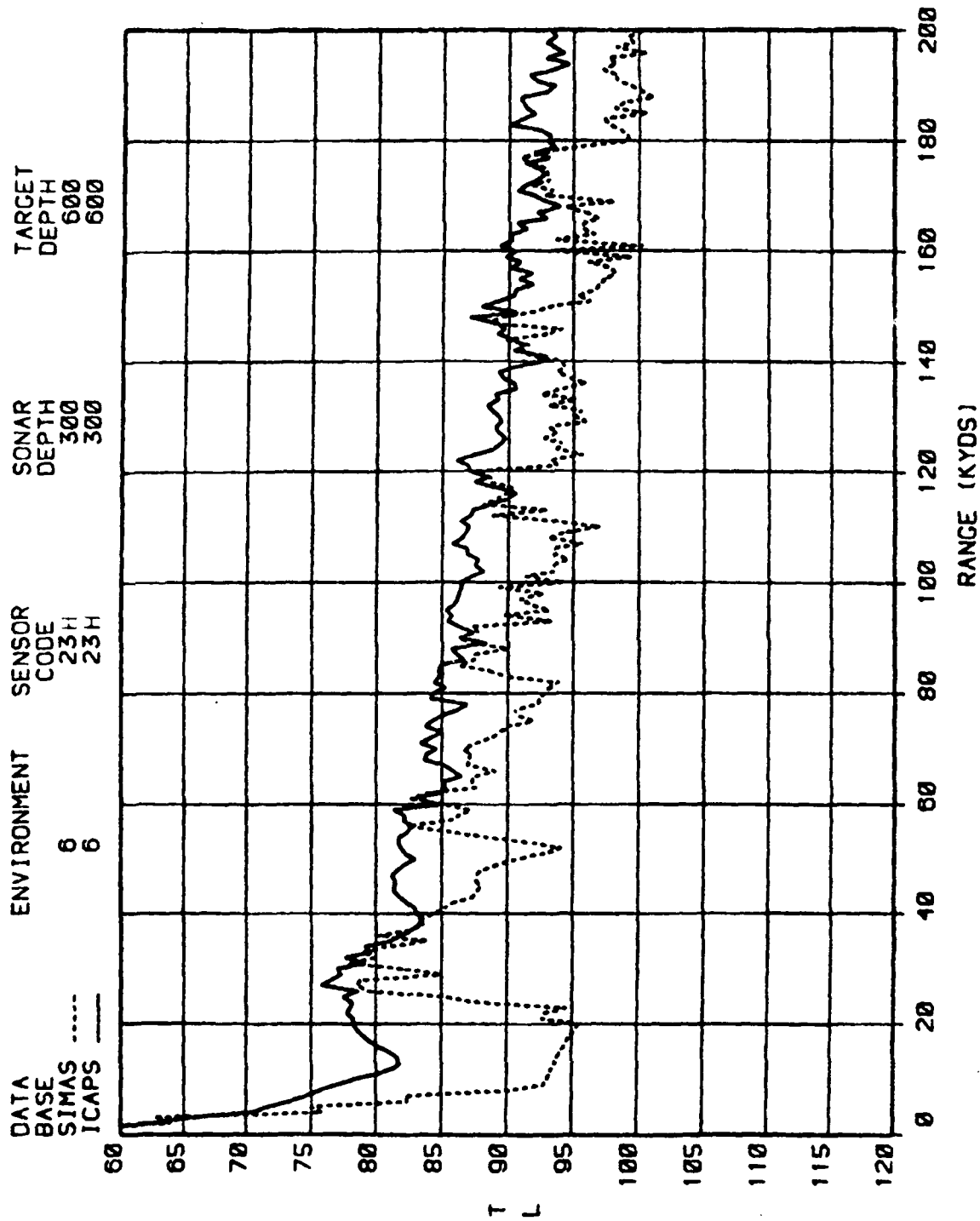












B. Sensor Performance Plots

1. Introduction

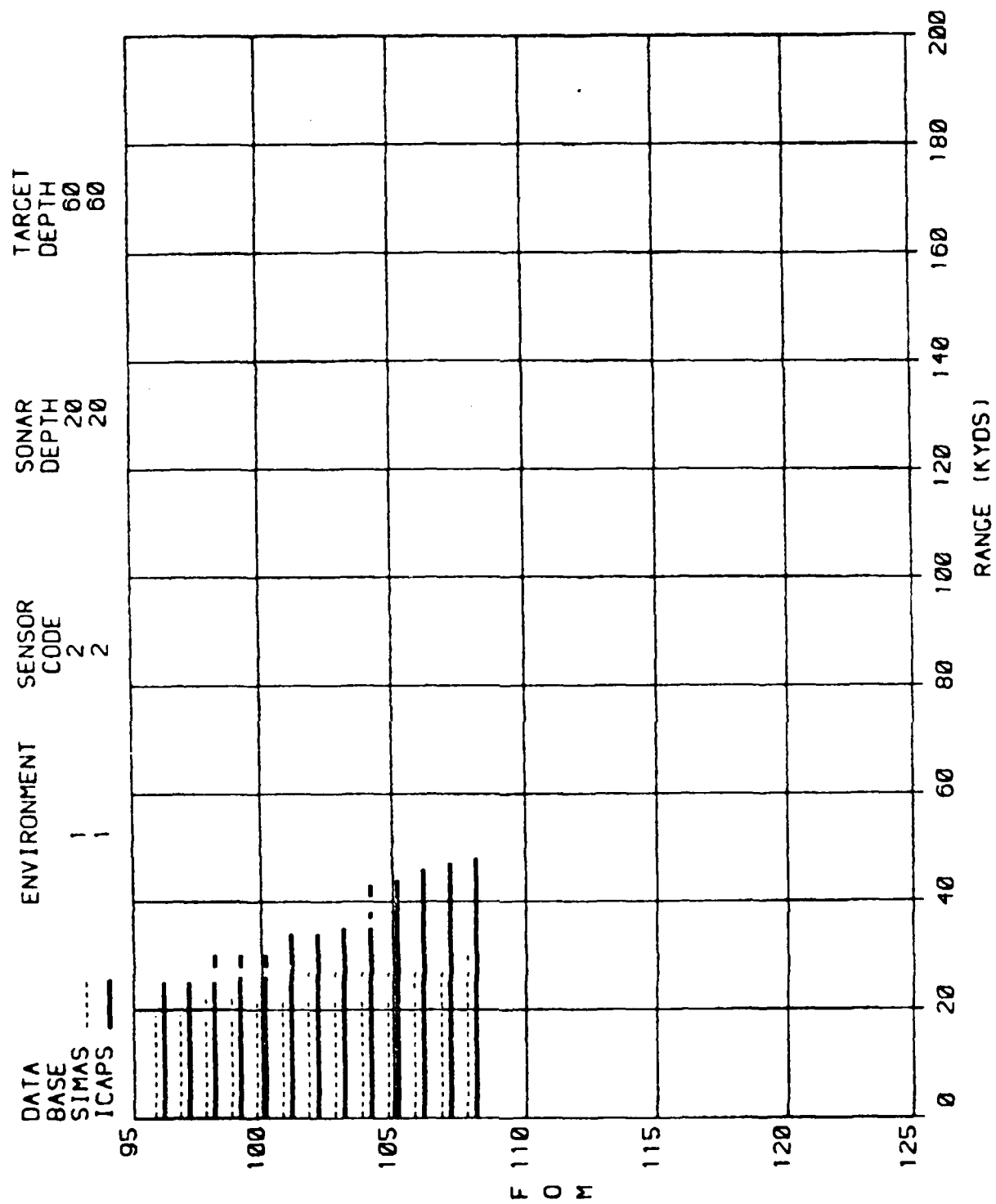
This section of the Acoustic Model Sensitivity to Input Data Differences report consists of sensor performance comparison plots presented as detection range intervals for a sensor dependent Figure of Merit (FOM) interval. The plots result from comparing the calculated PL with a chosen FOM value. The Propagation Loss Objective Analysis Scheme described in Volume I Section C was utilized to make the comparisons over the designated FOM interval for each of the 336 PL sets. The detection intervals consist of those range intervals in which the calculated PL is less than the FOM value of interest. The scenario described in Volume I Section D describes the process by which the FOM intervals were selected for each sensor. When the relative speeds of the units were considered together with an estimate for integration time, a minimum detection interval of two kiloyards was chosen as the threshold interval below which a detection would not be considered. This means that for an interval to appear on the plot, the FOM must have exceeded the PL for at least two consecutive range increments. This effectively eliminates narrow "spikes" from consideration.

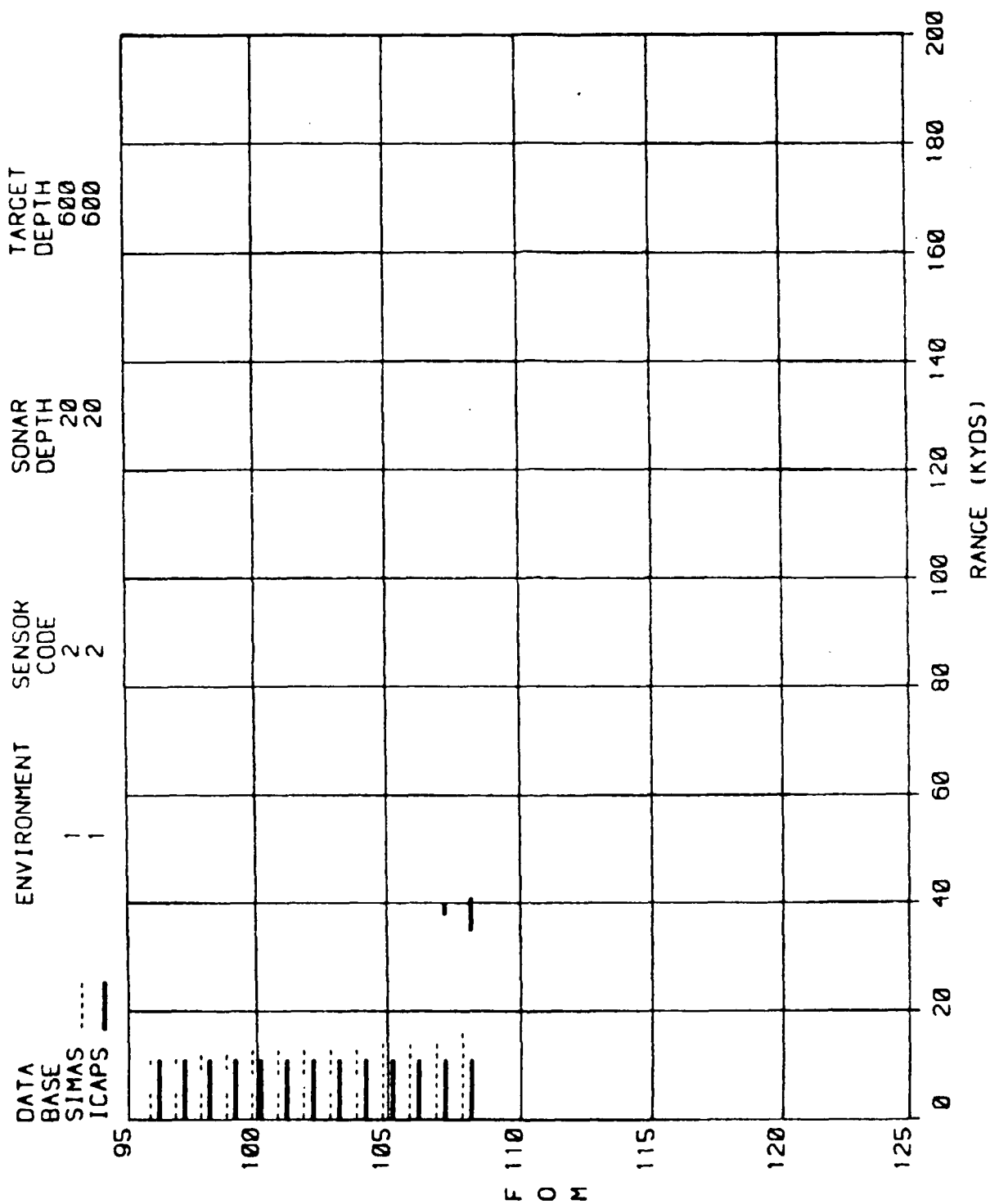
2. Plot Description

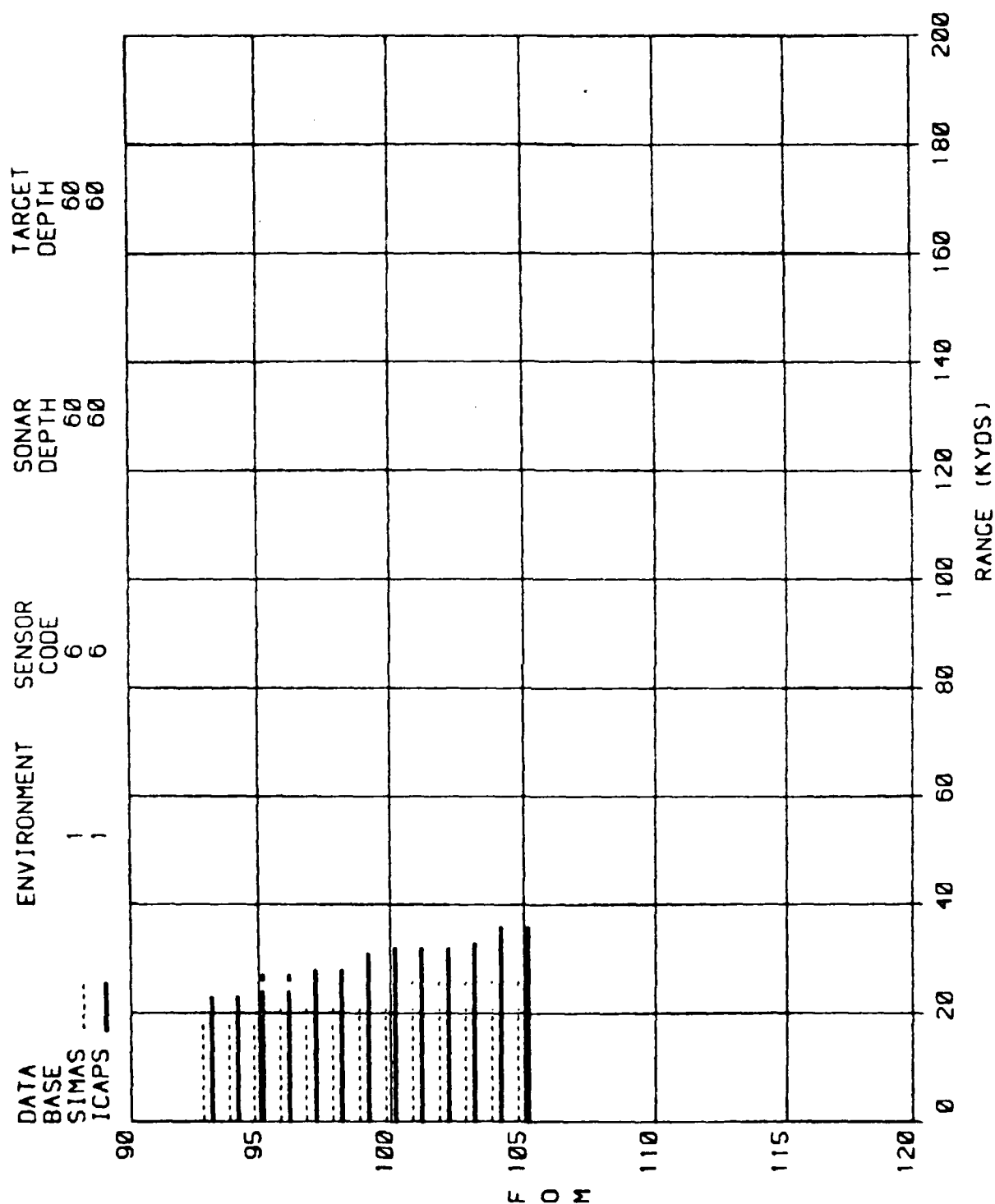
The plot format is identical for each case analyzed. A 30 dB range including the FOM interval of interest is chosen for the vertical axis. Results are computed and displayed at 1dB intervals over the FOM interval of interest. The range (horizontal) axis extends from 0 to 200 kiloyards at 20 kiloyard increments. The performance calculations were made over the interval 1 to 200 kiloyards in 1 kiloyard increments.

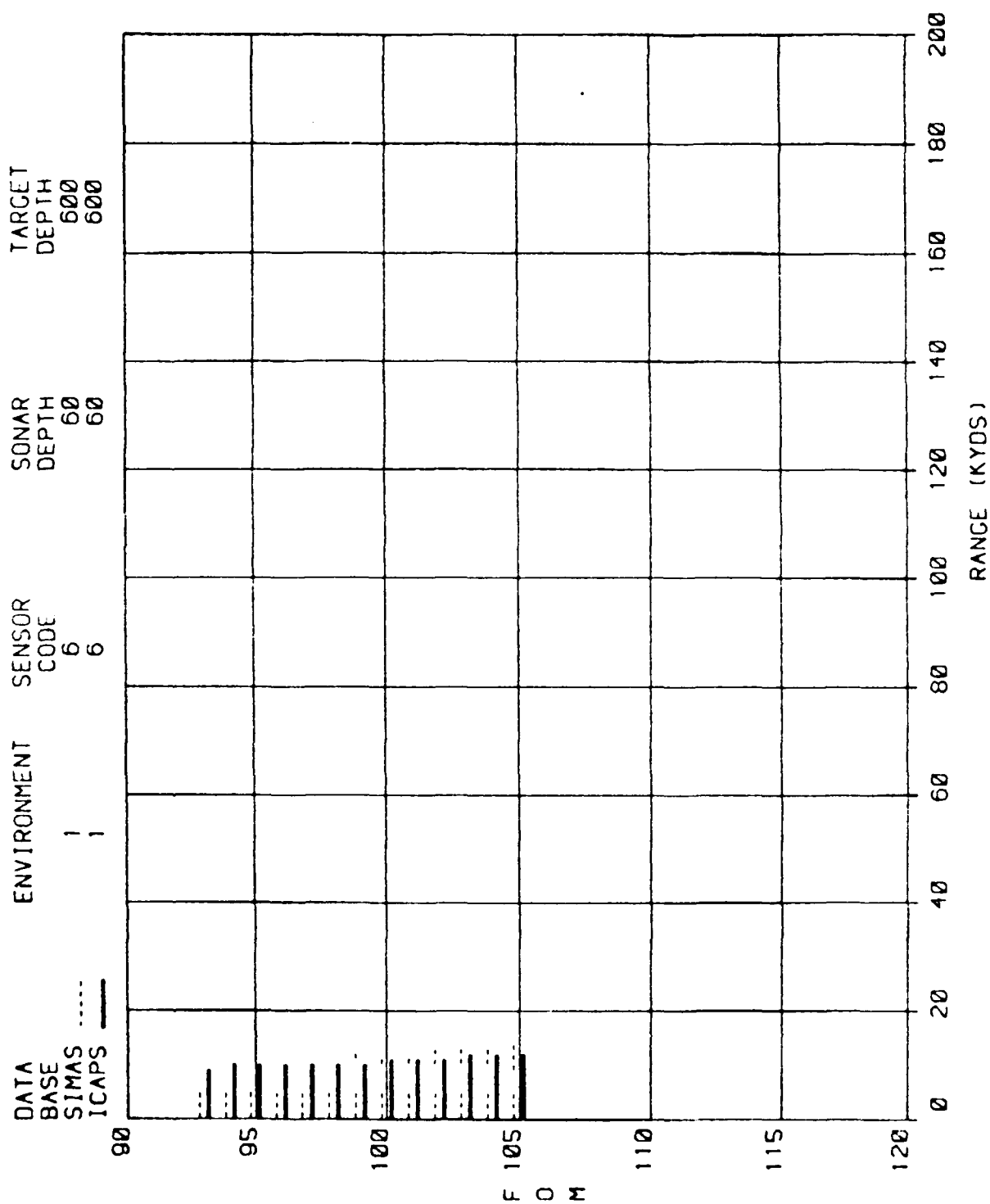
Each plot contains a header which delineates the data base, environment, sensor code, sonar depth (feet), and target depth (feet). The actual detection intervals are represented by a solid line for ICAPS and a dashed line for SIMAS. A full description of the environment may be found in Volume I Section B. The characteristics of the sensors including designation, frequency, vertical beamwidth, FOM interval, and nominal FOM may be found in Volume I Section D.

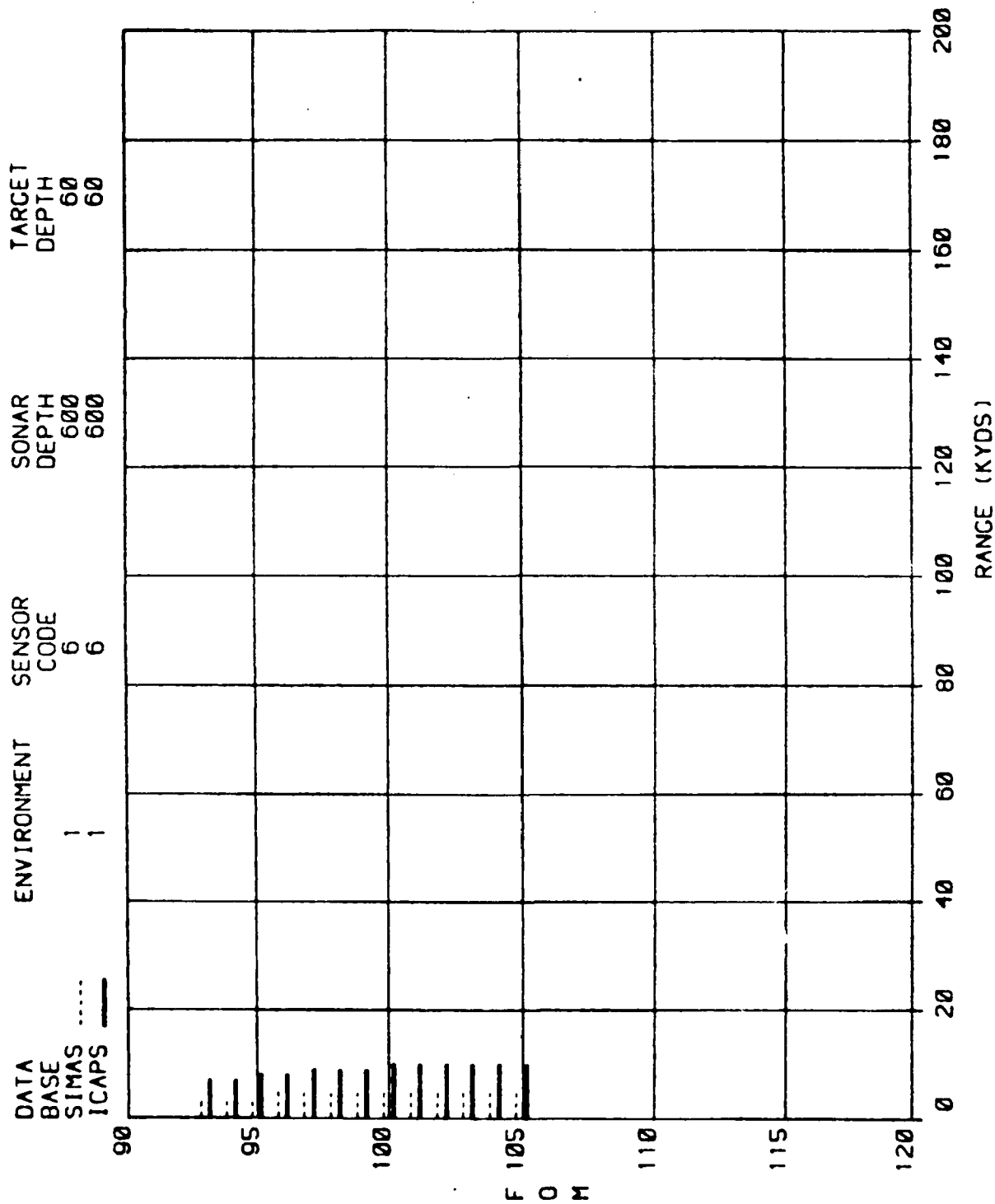
The performance of each sensor has been characterized as a function of data base and a written description relating observed performance differences to PL and environment differences may be found in Volume I Section F.

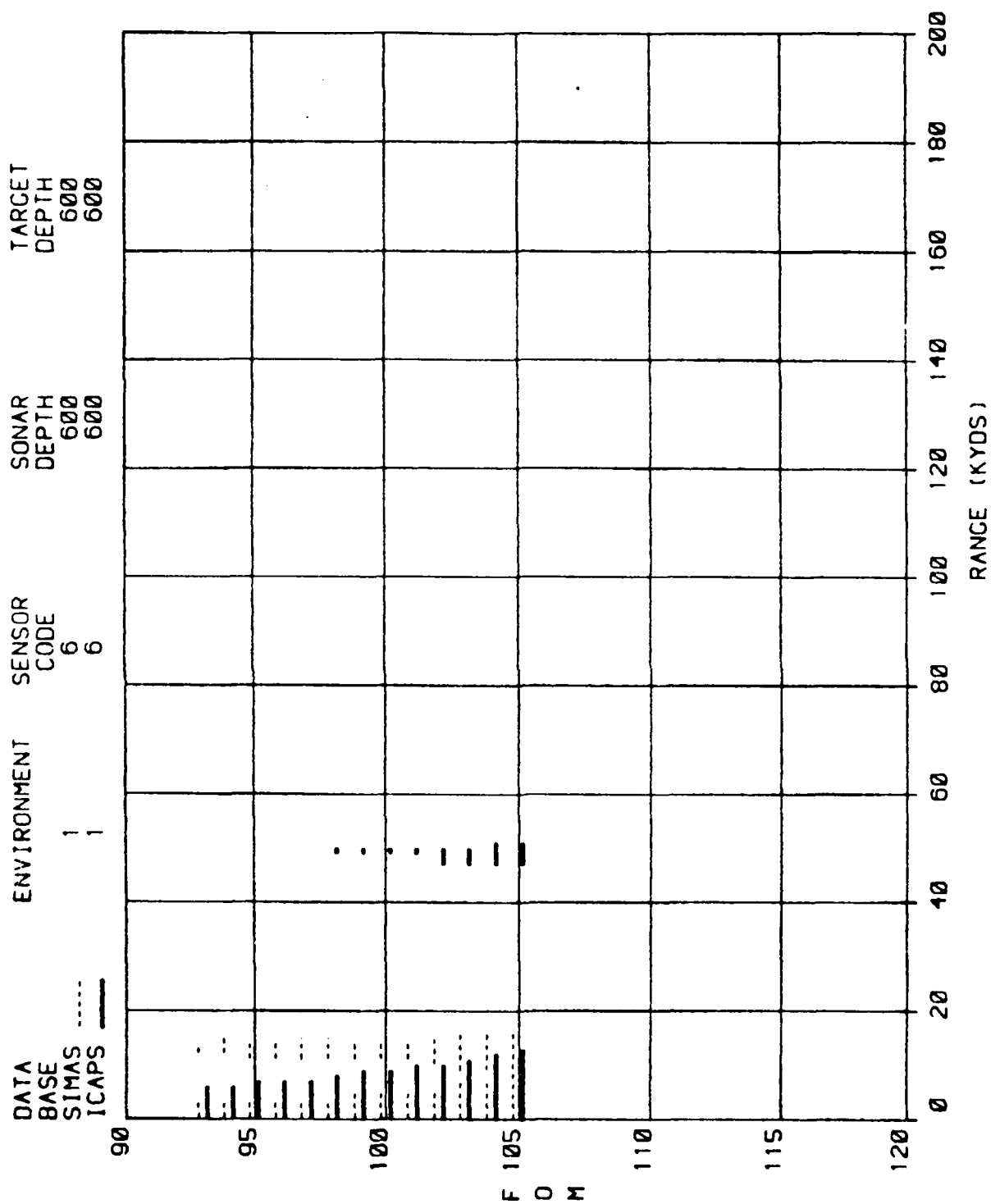


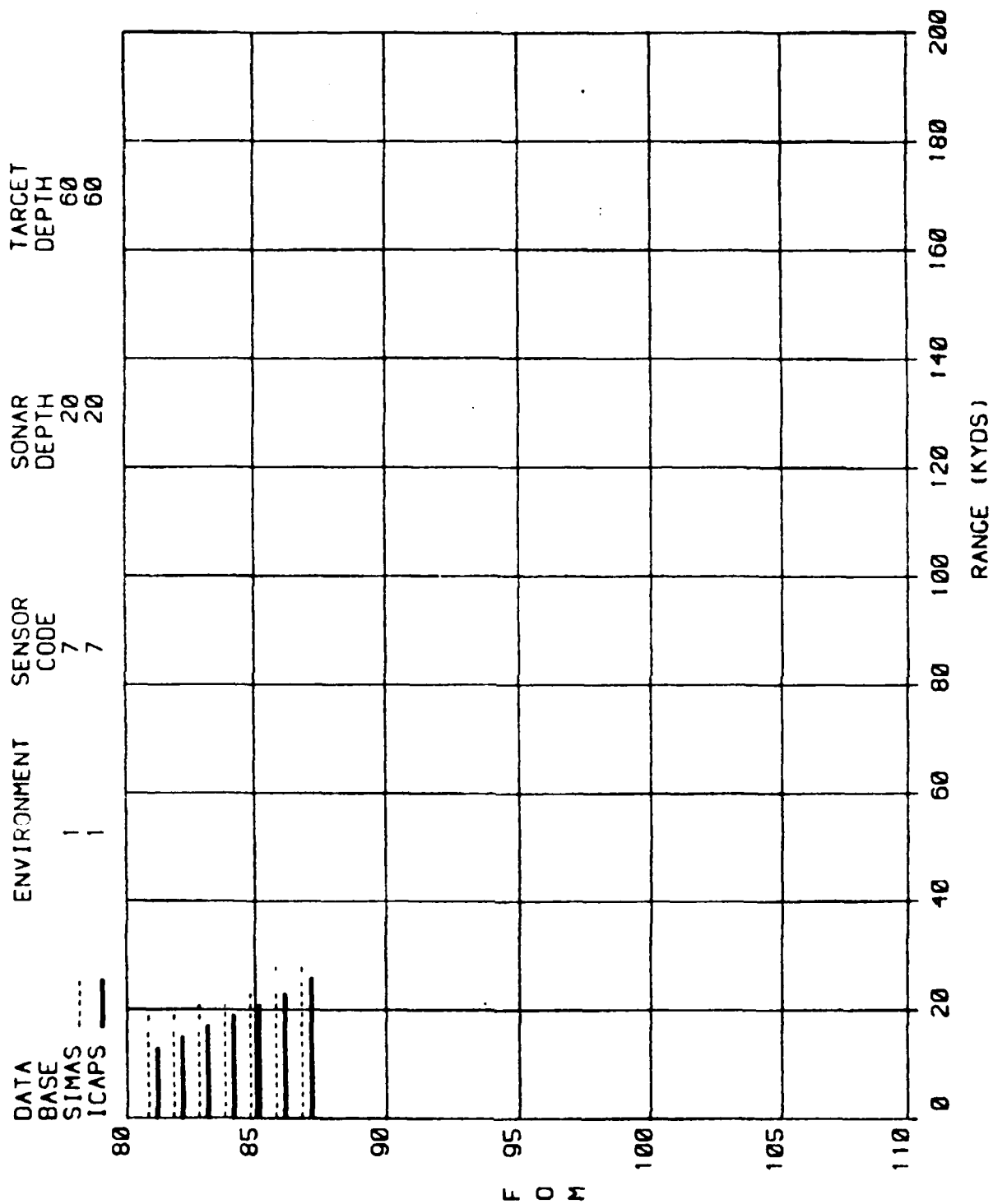


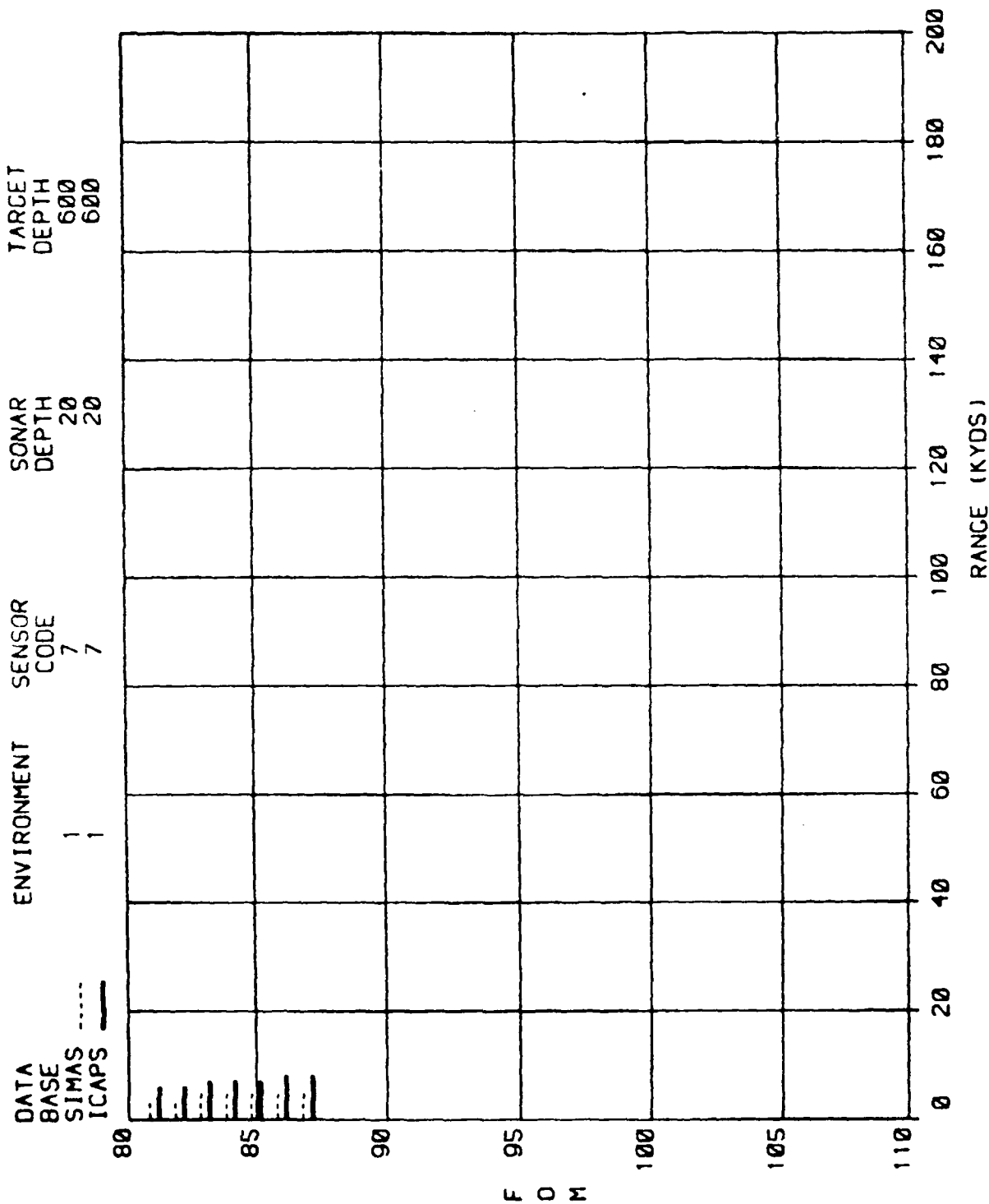


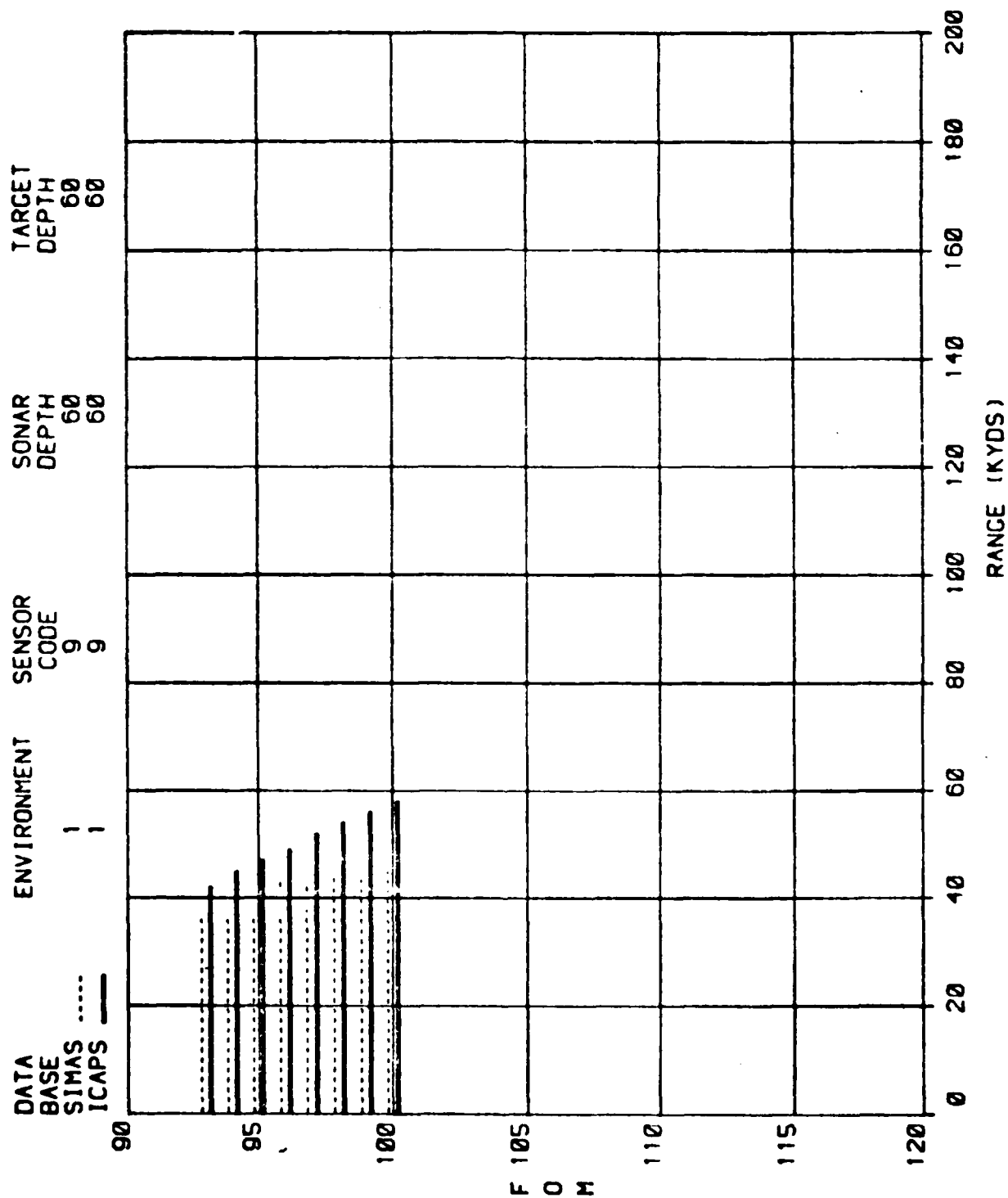


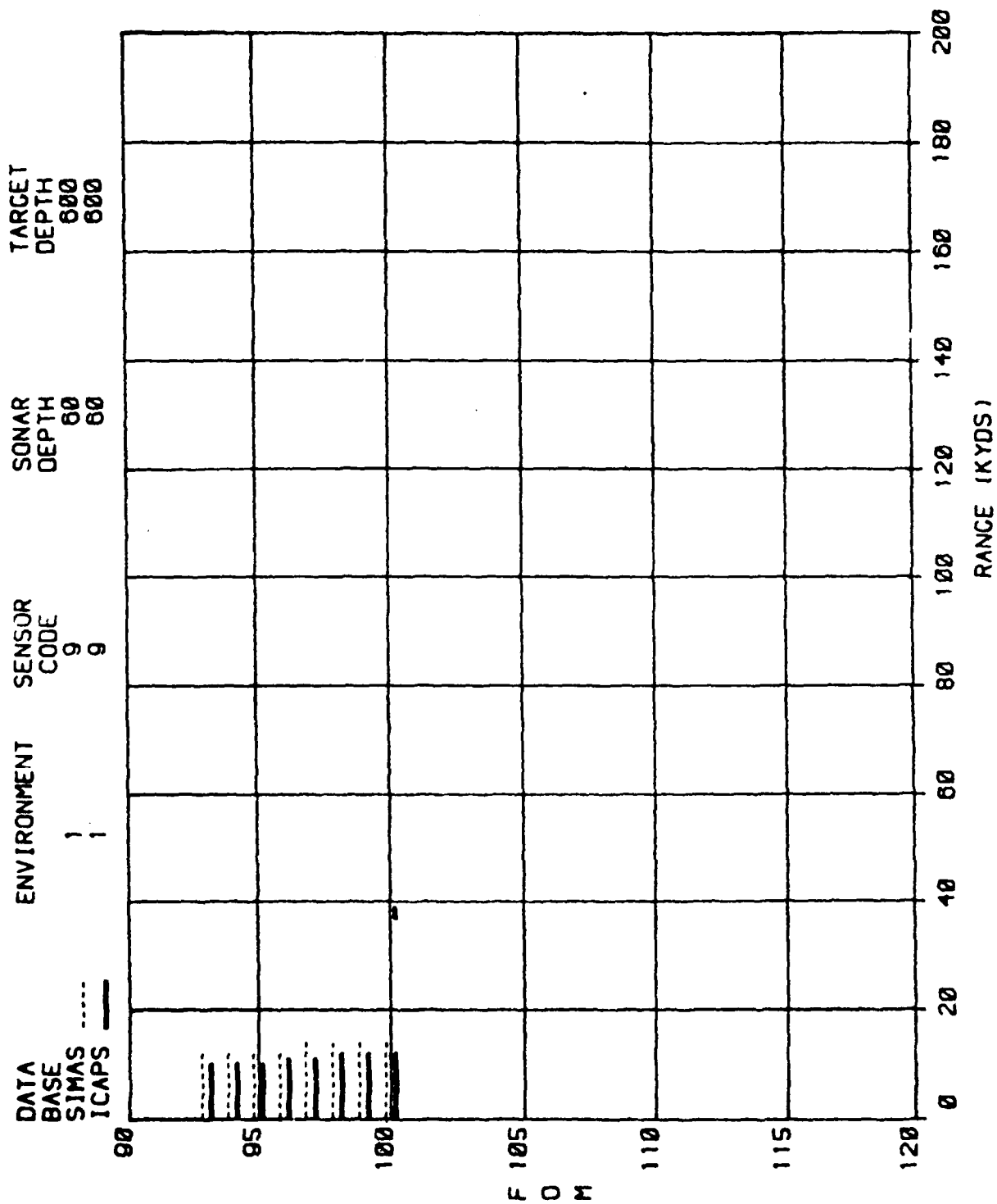


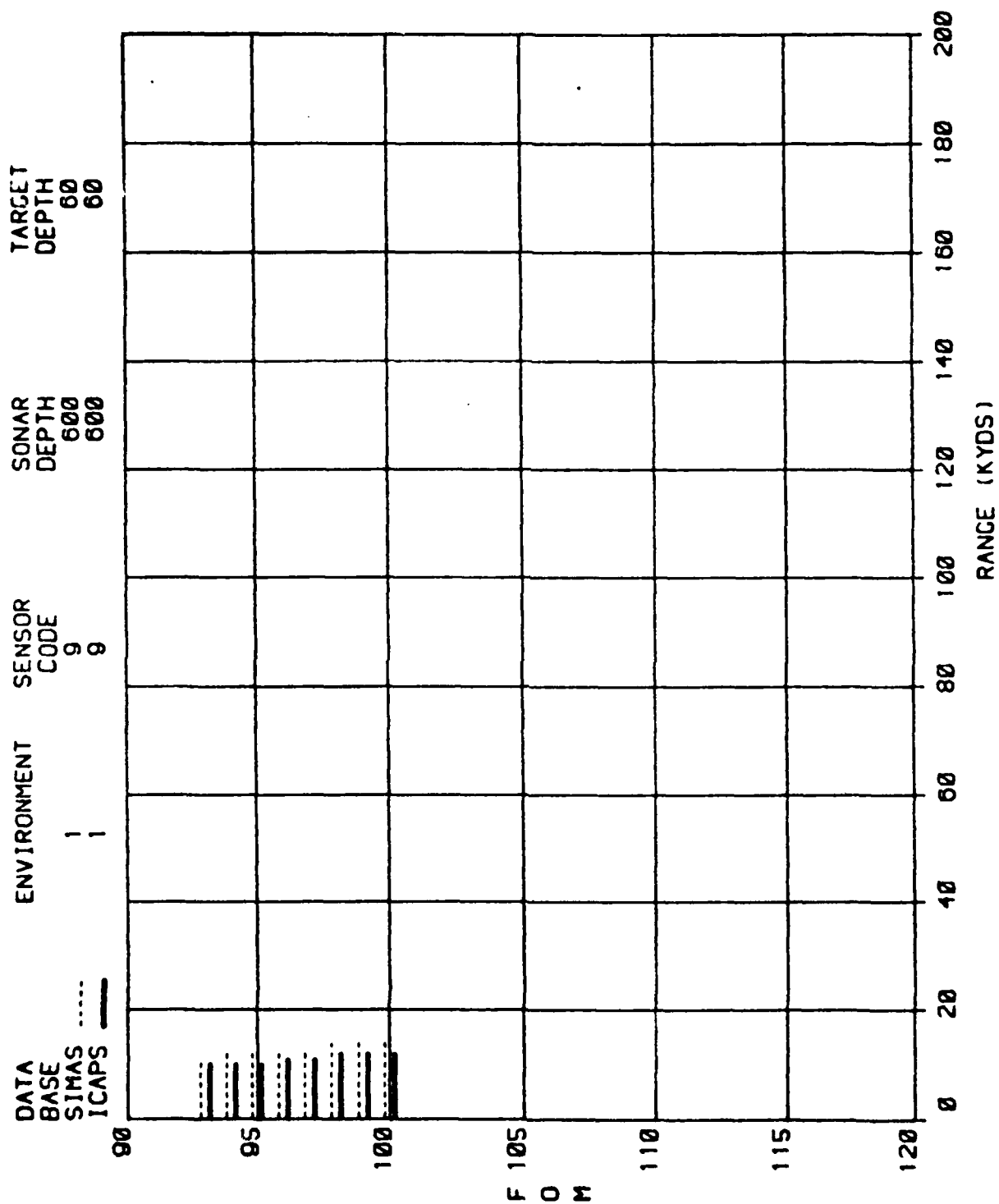


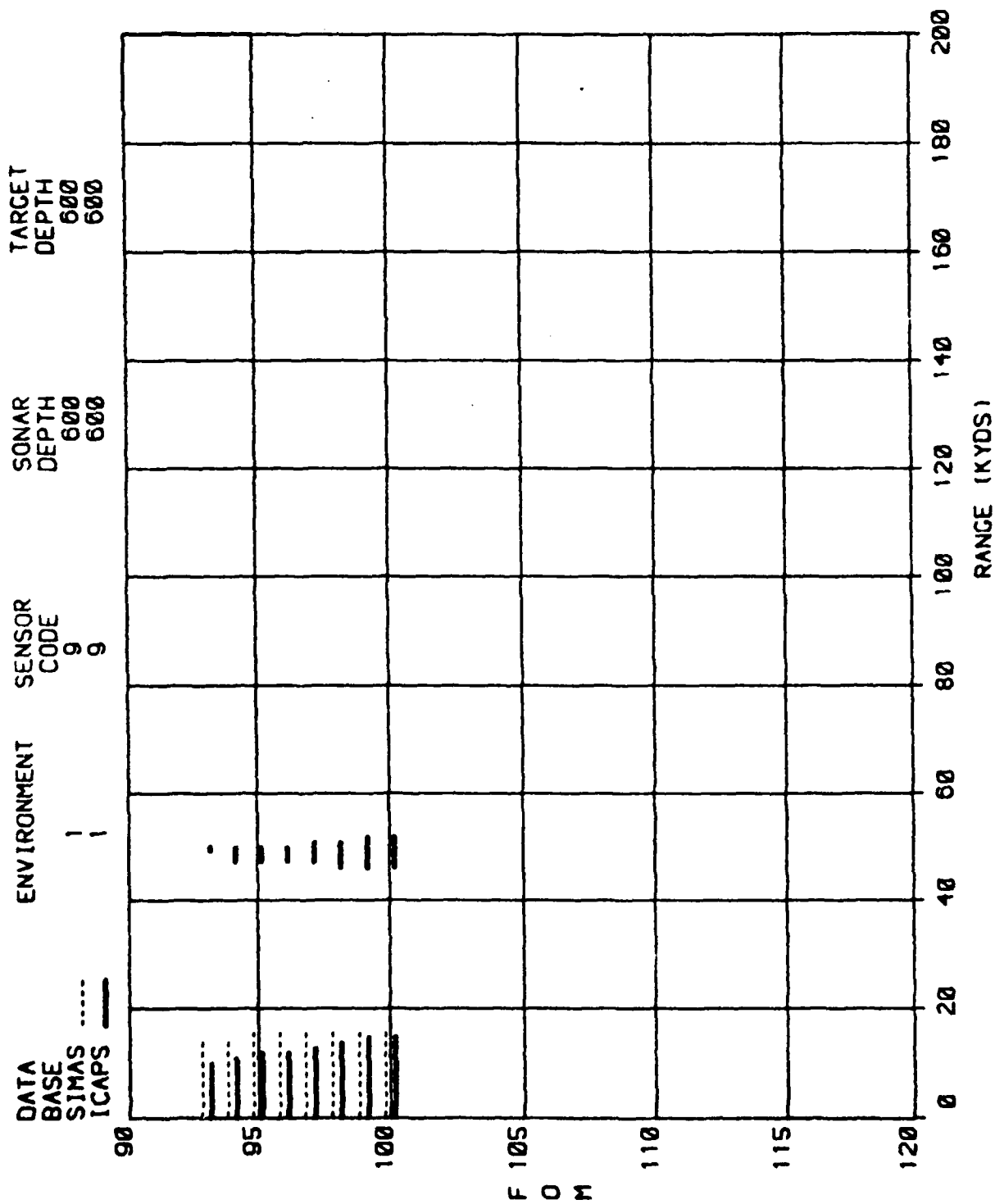


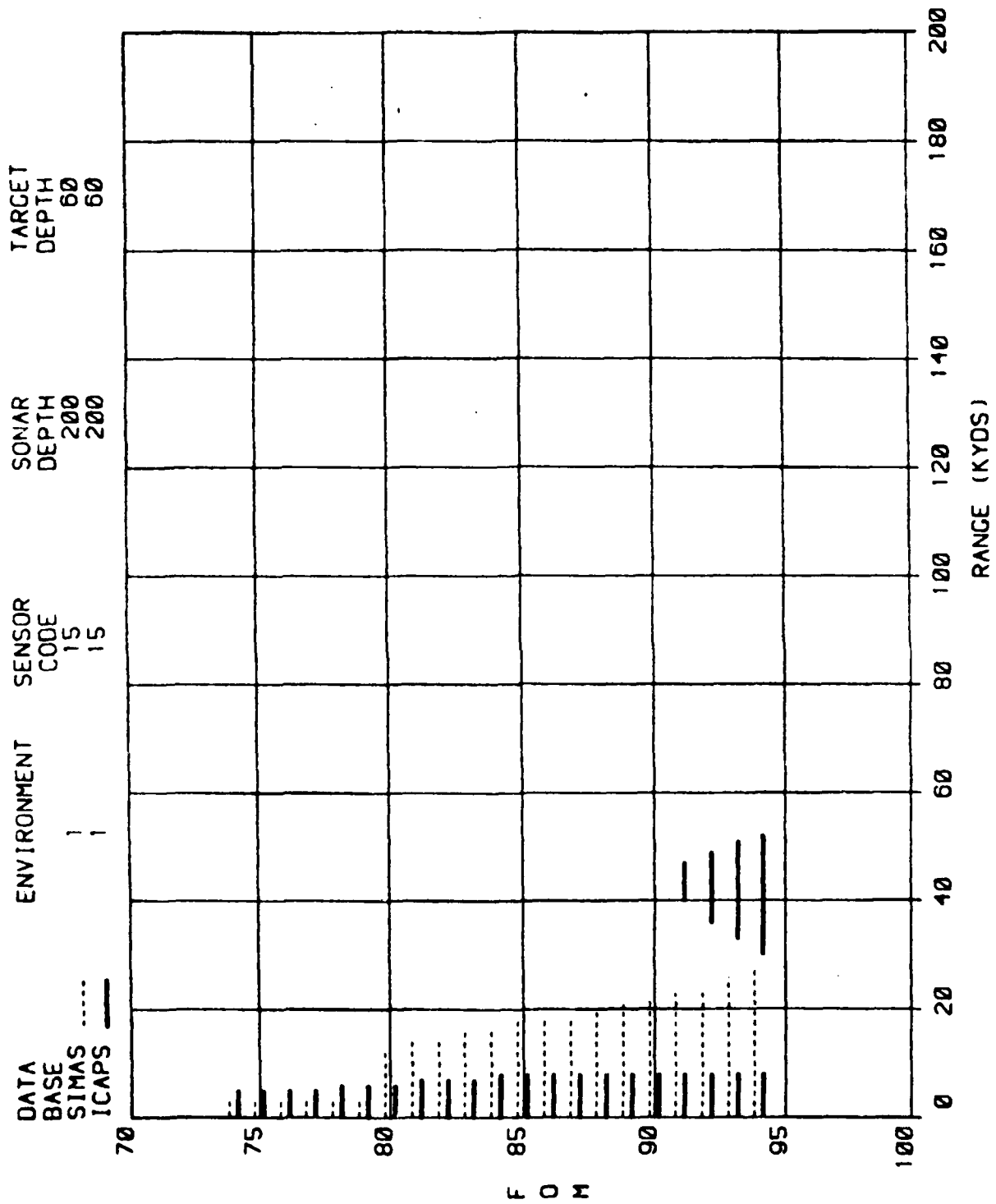


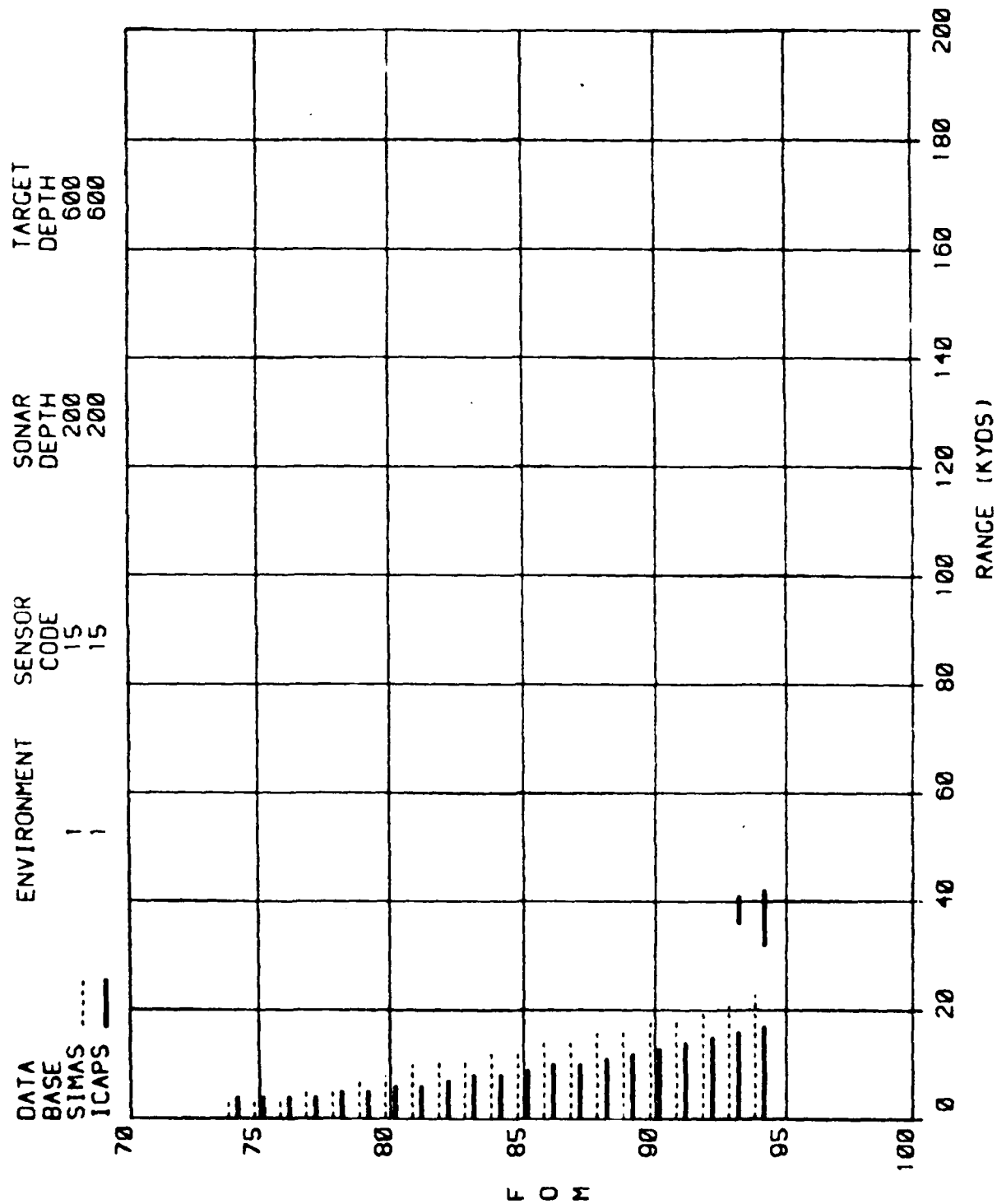


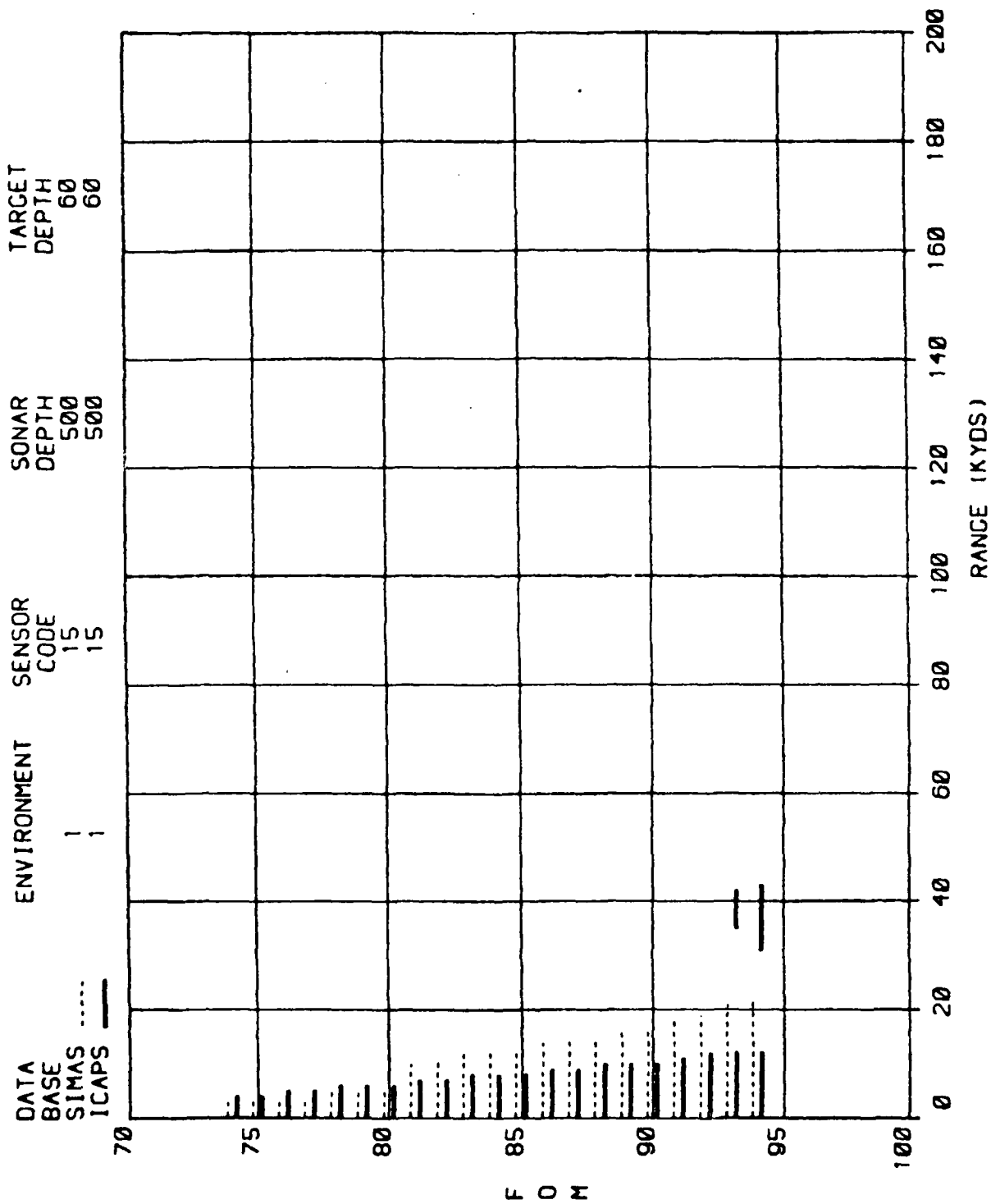


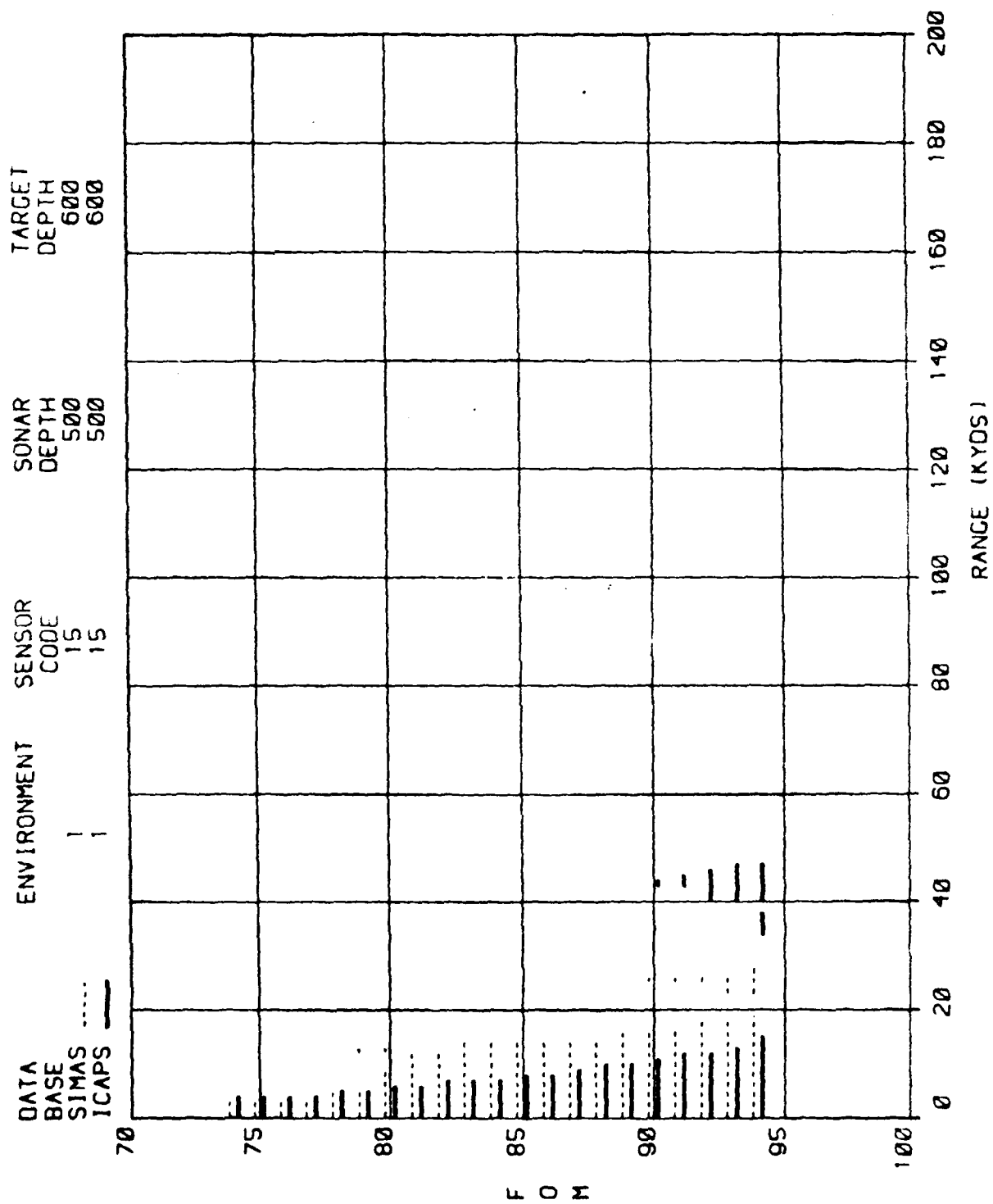


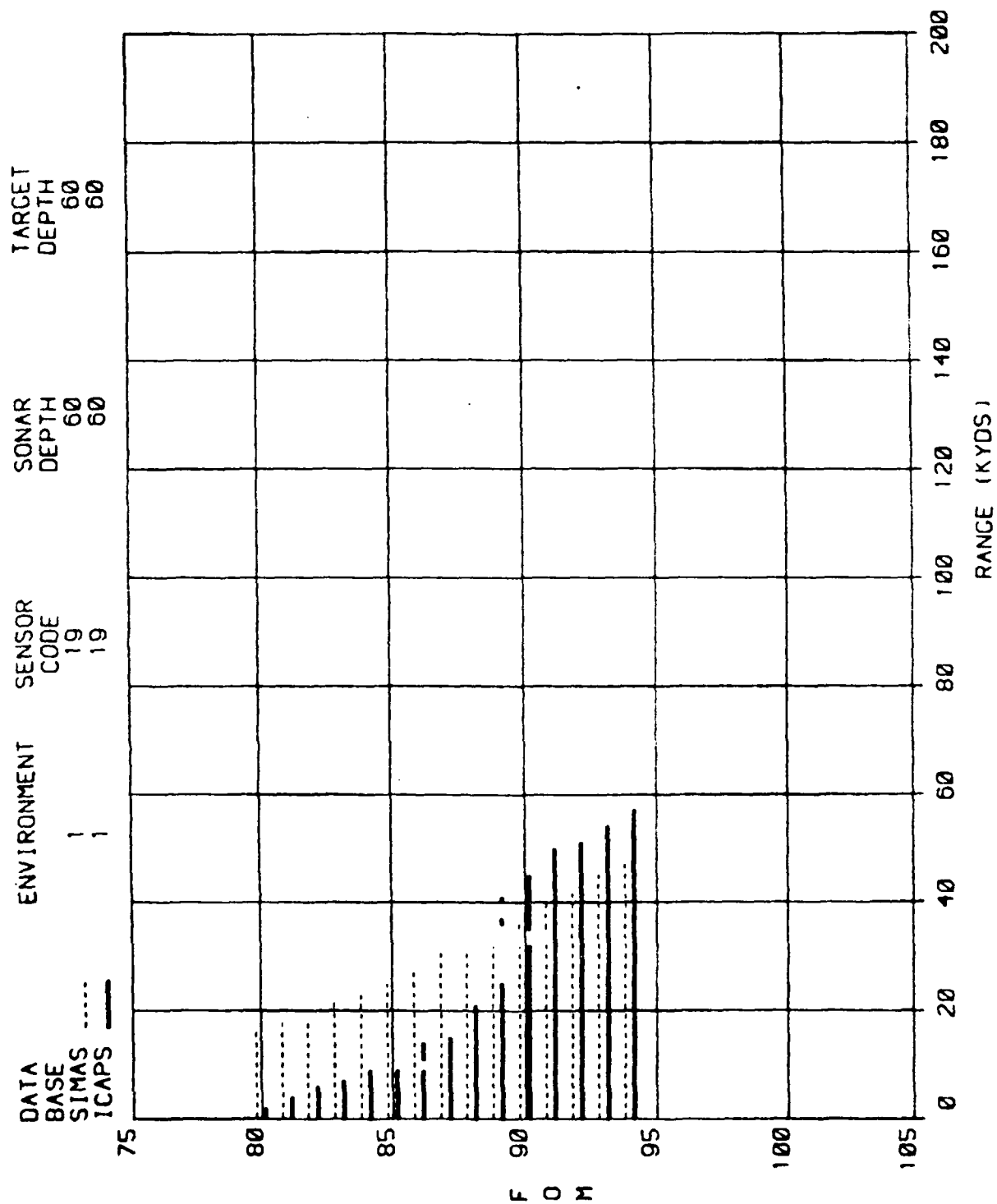


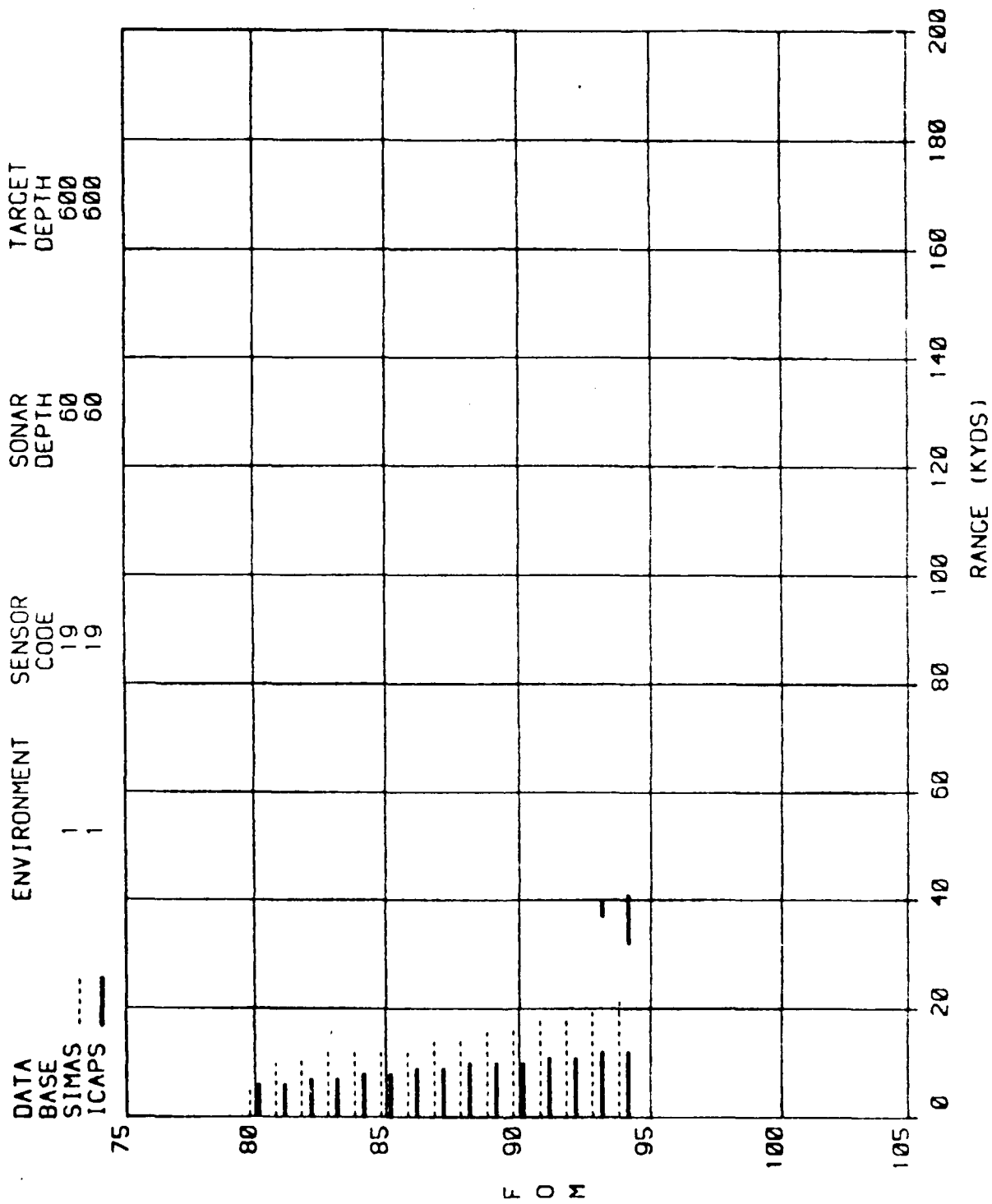












AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/6 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
NORDA-TN-73-VOL-2

UNCLASSIFIED

NL

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

3-7

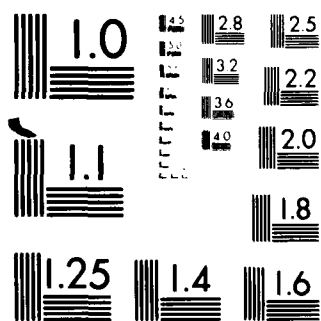
3-7

3-7

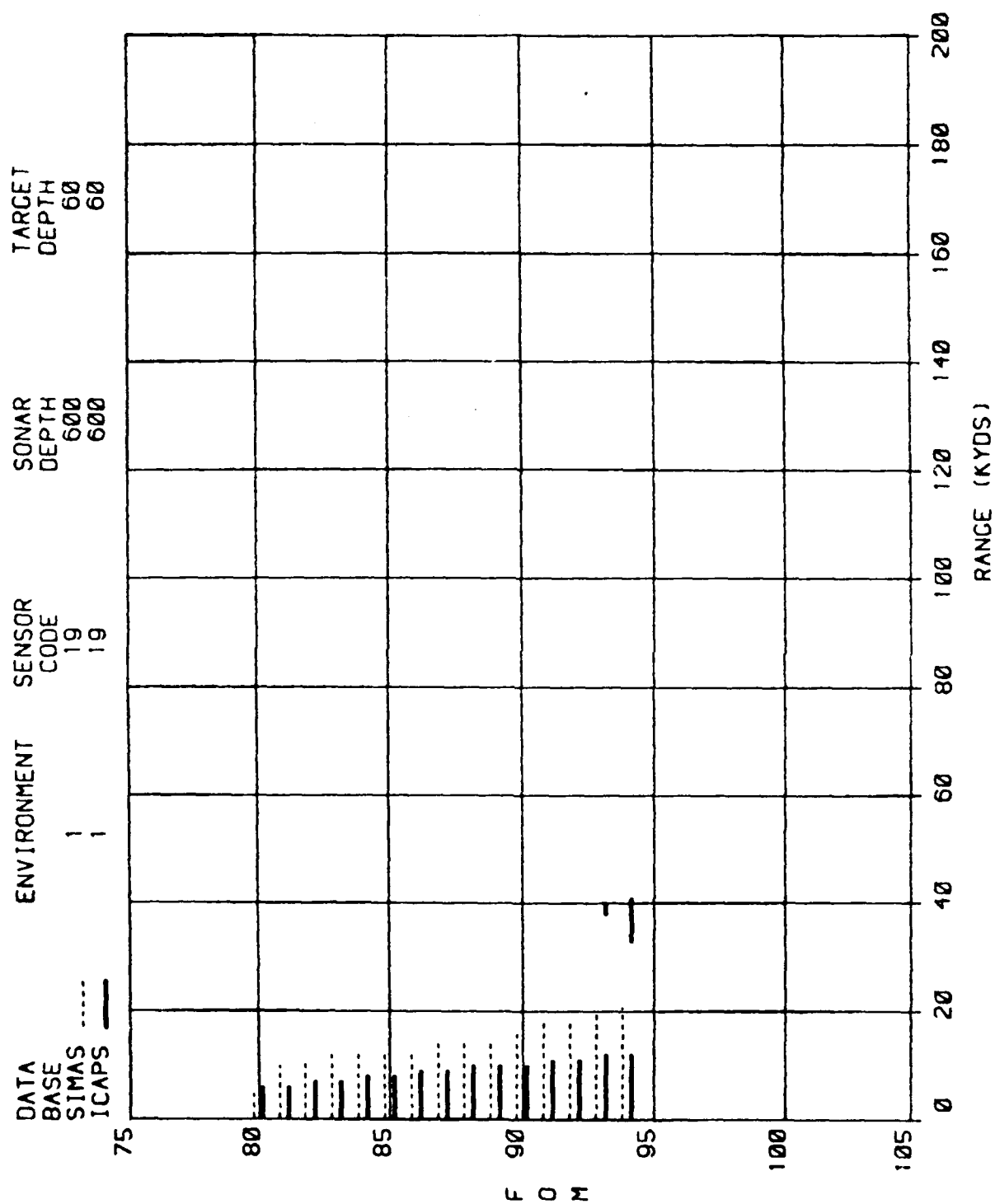
3-7

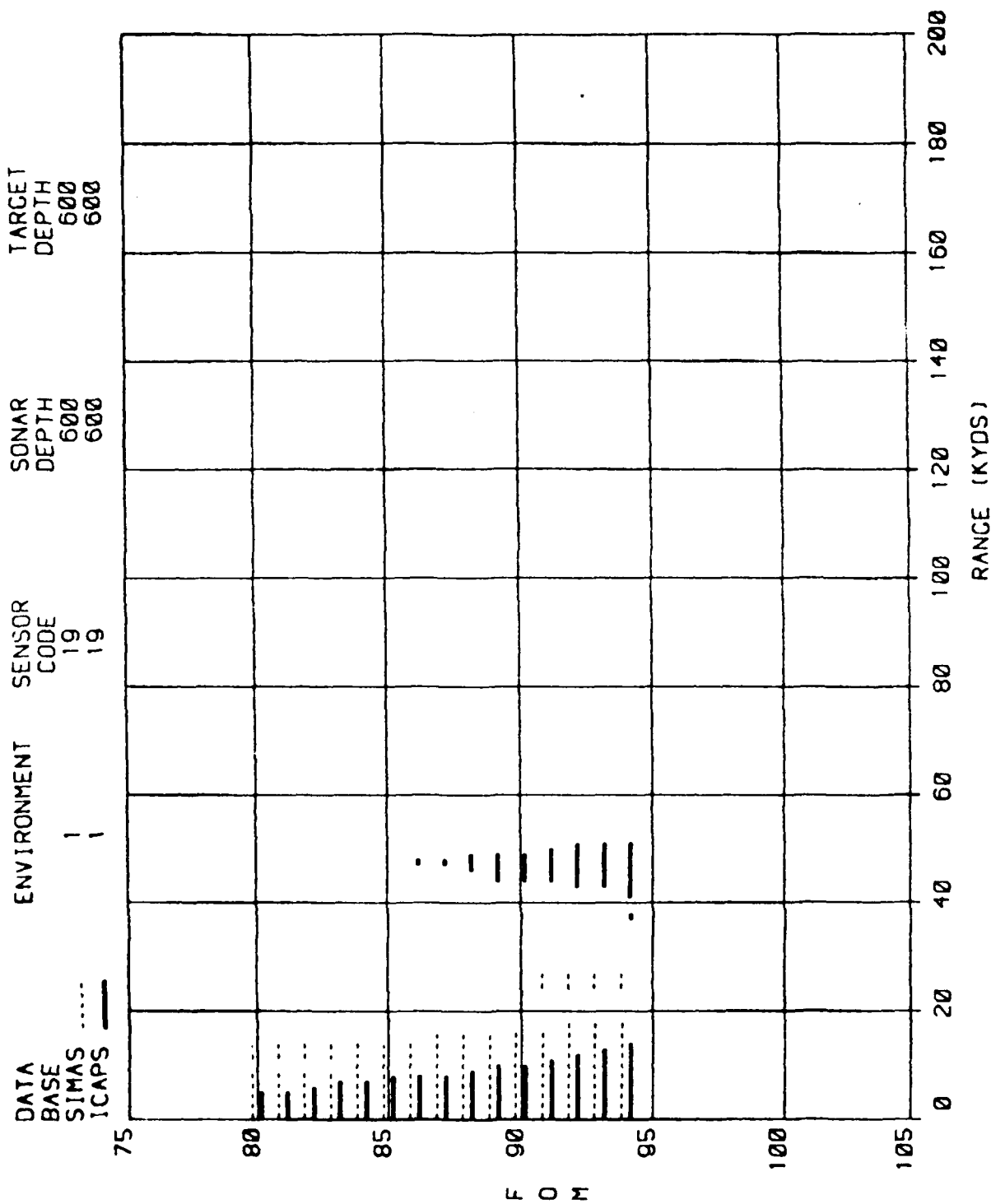
3-7

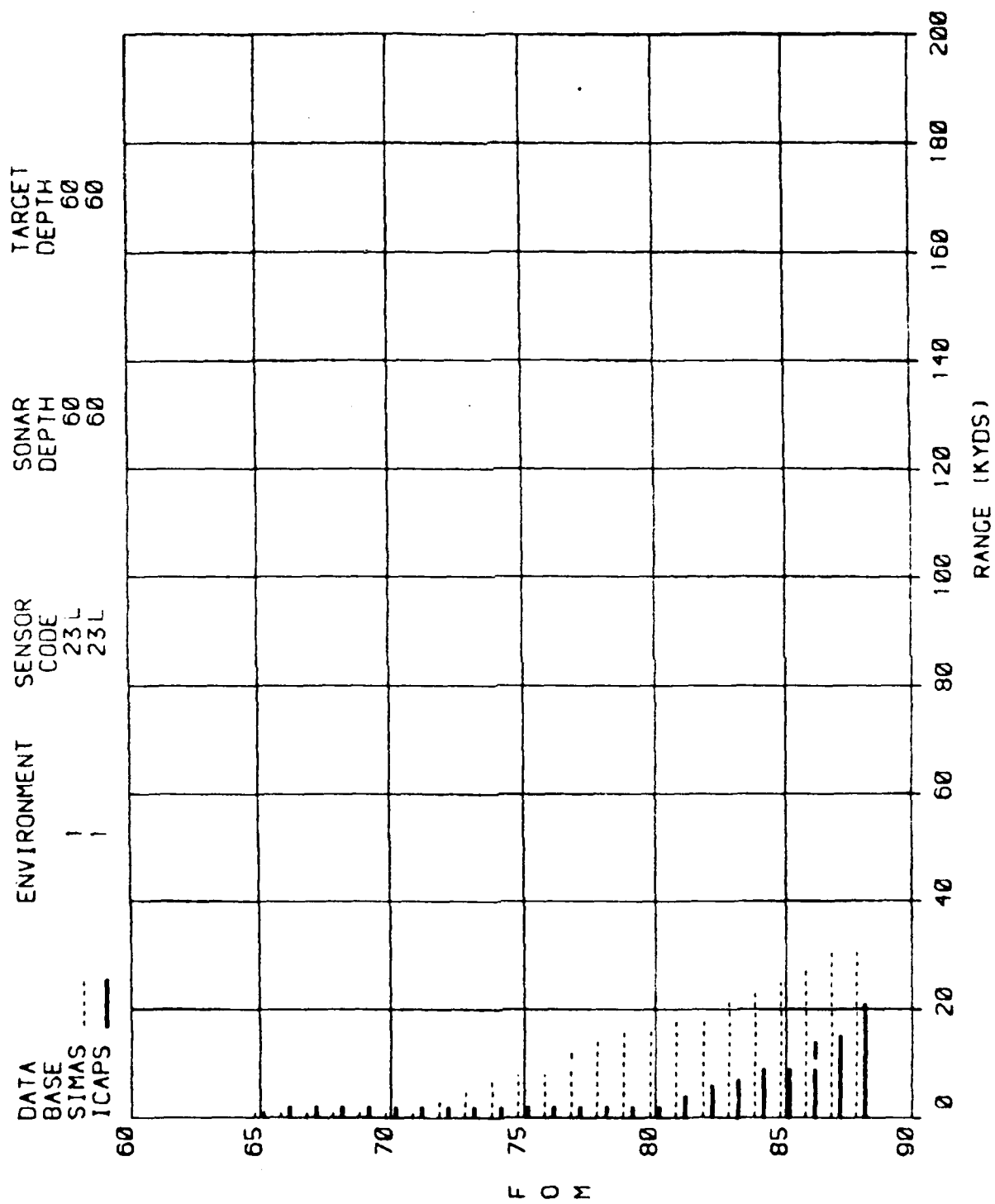
3-7

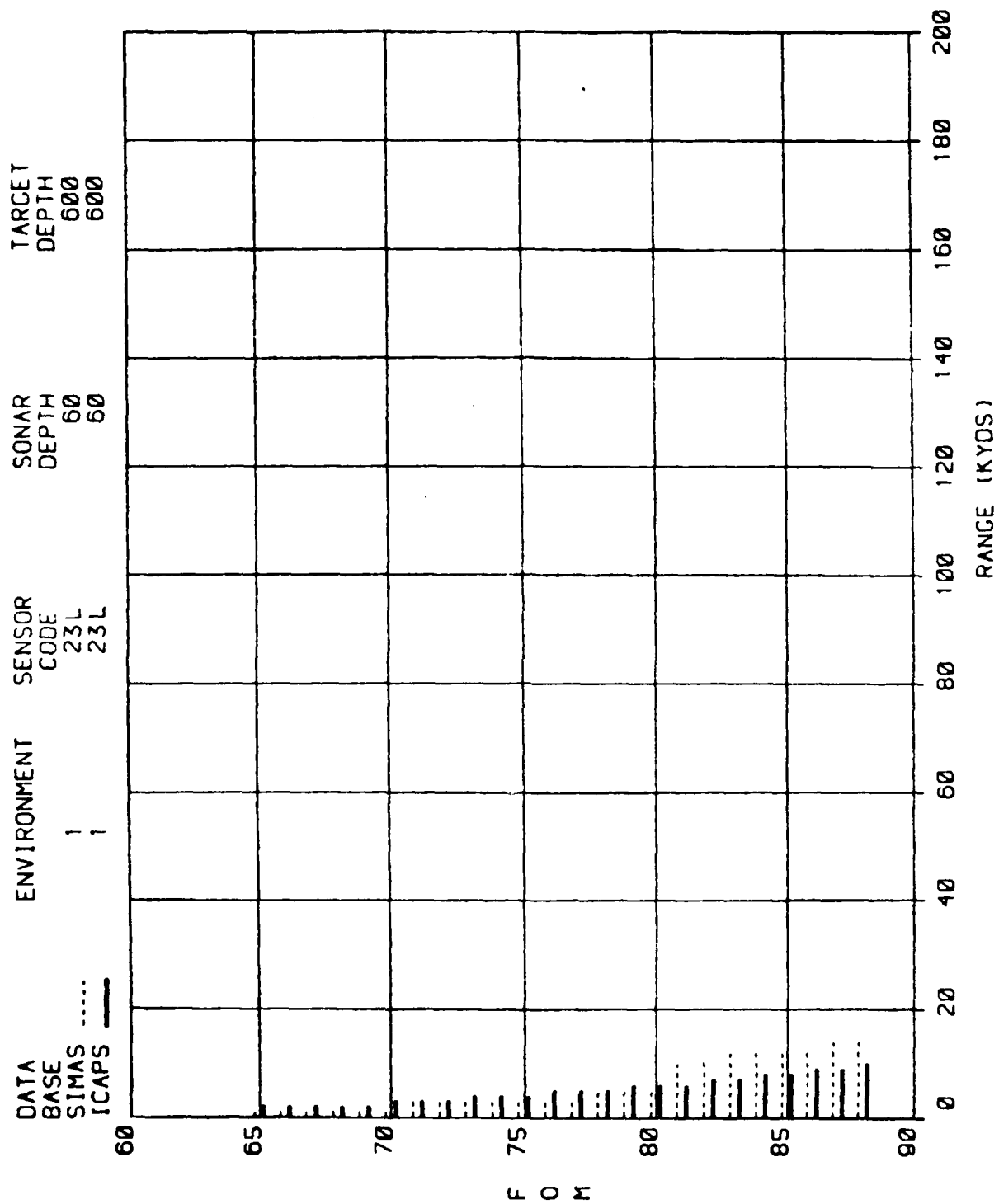


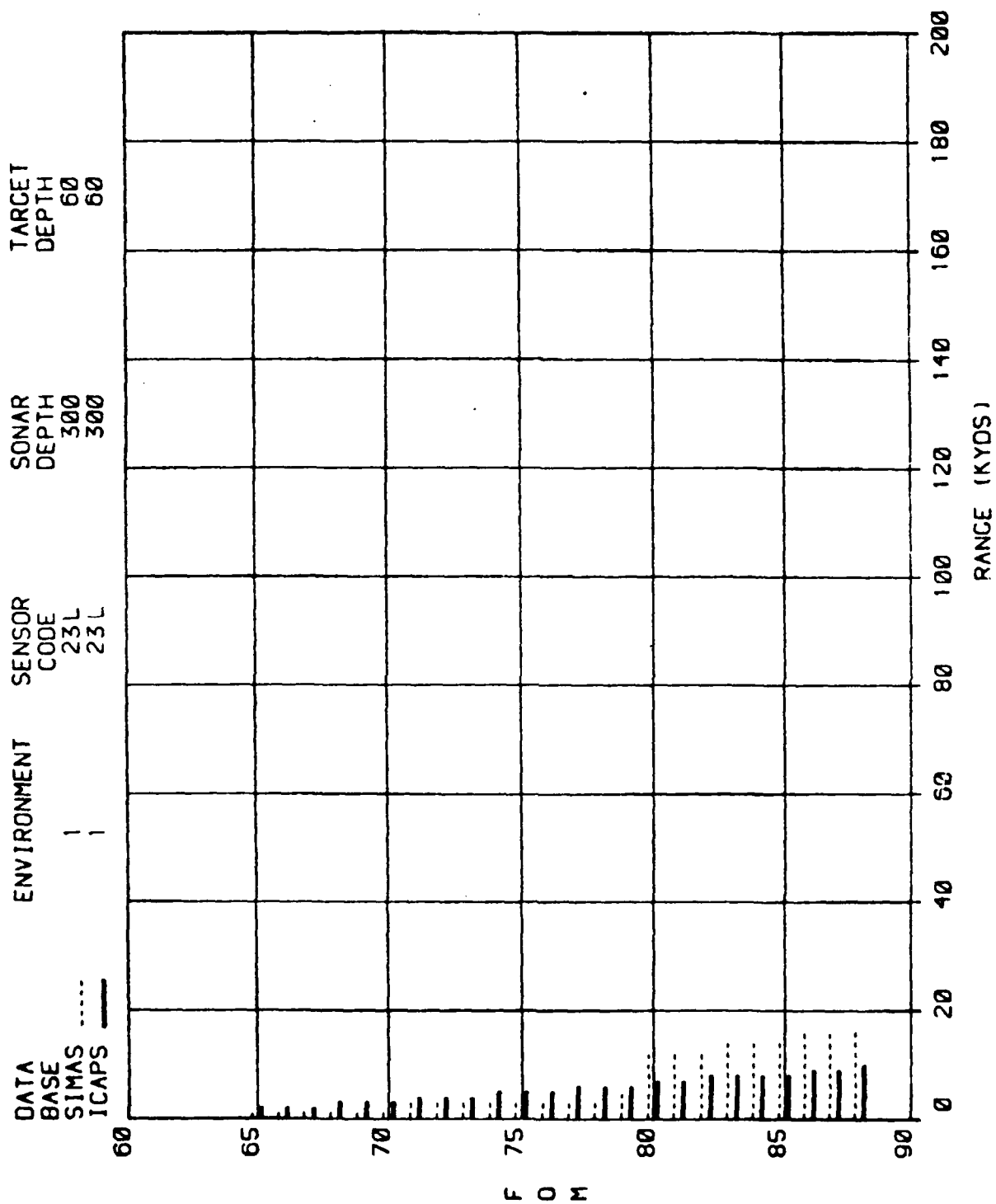
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

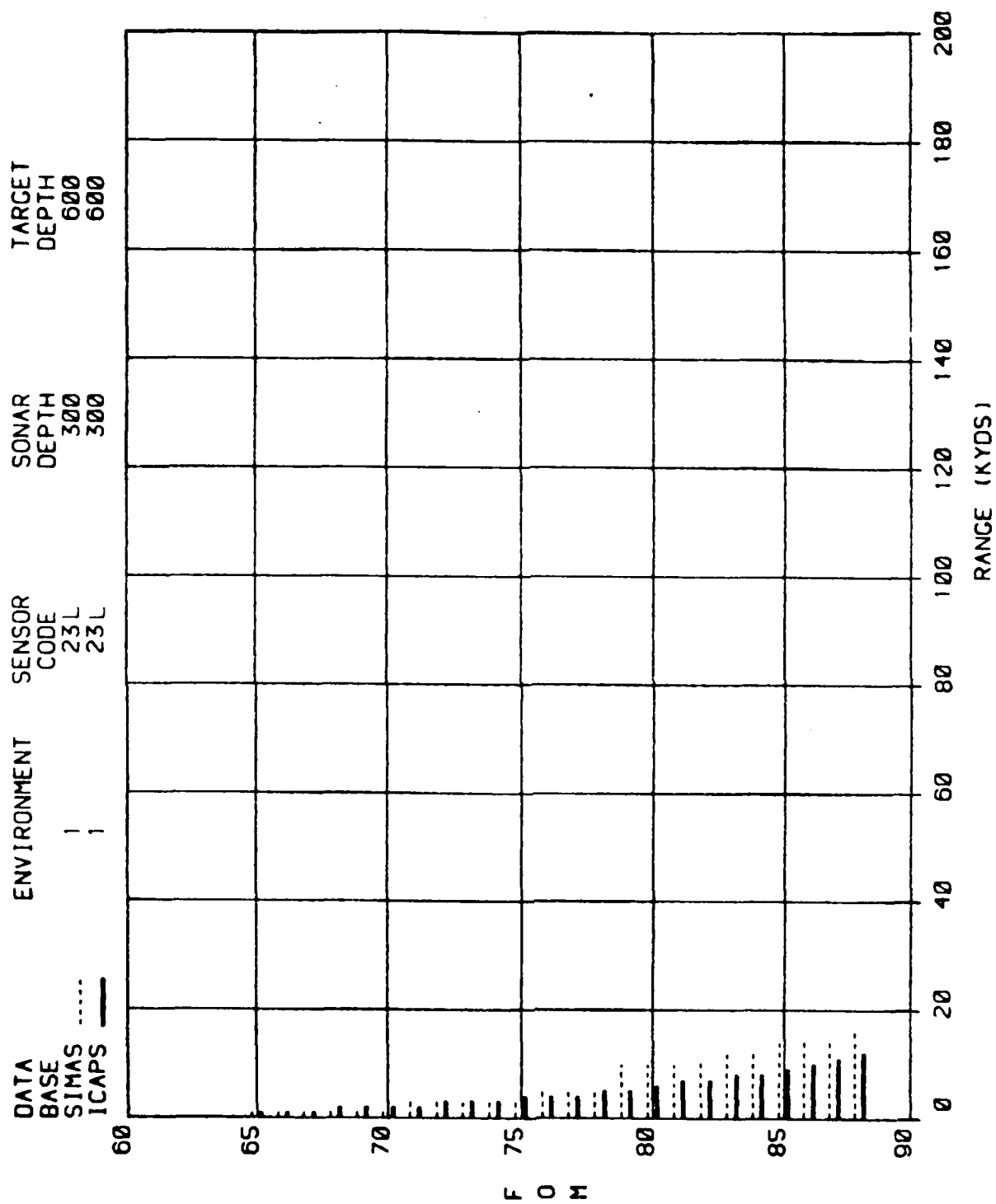


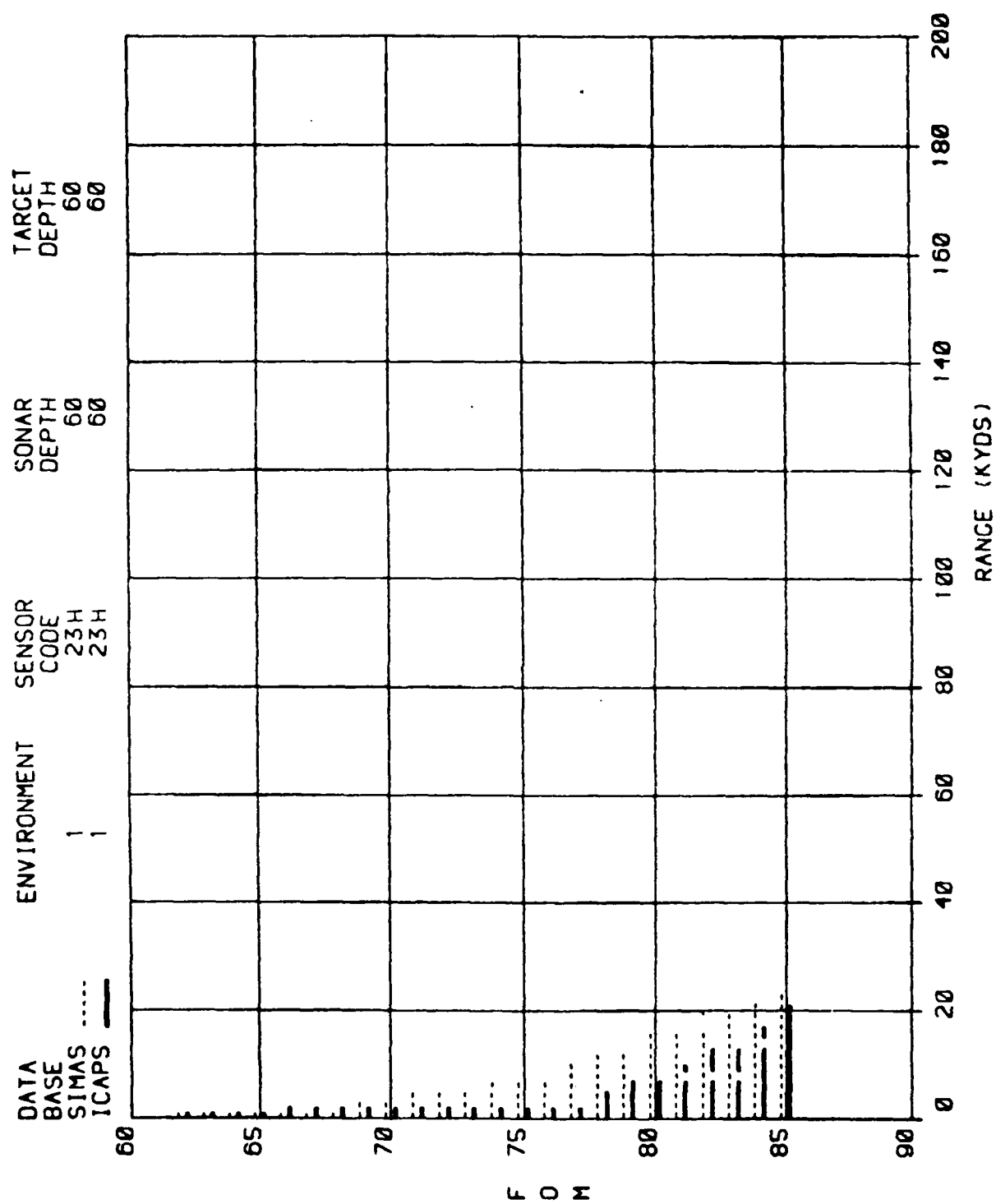


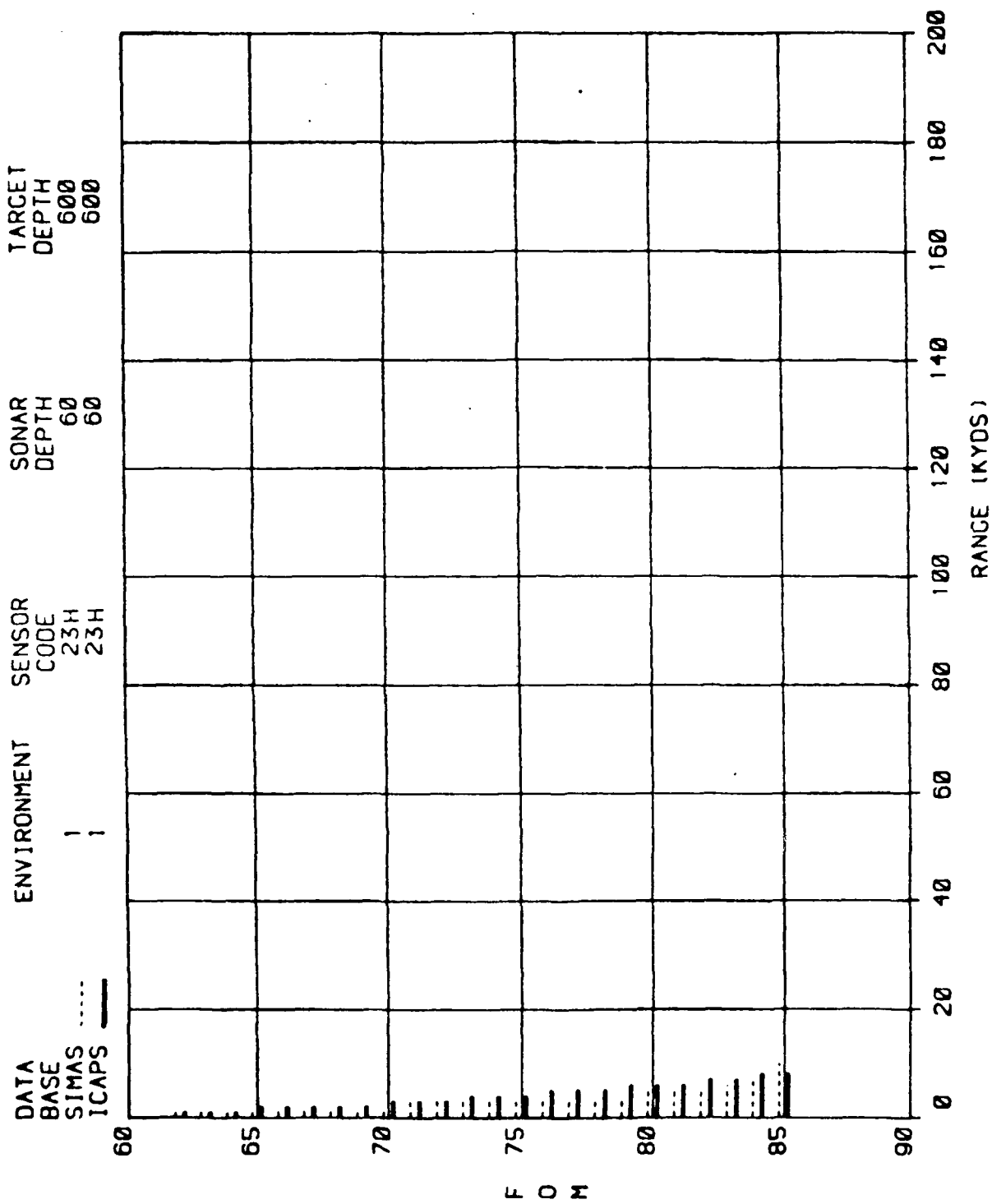


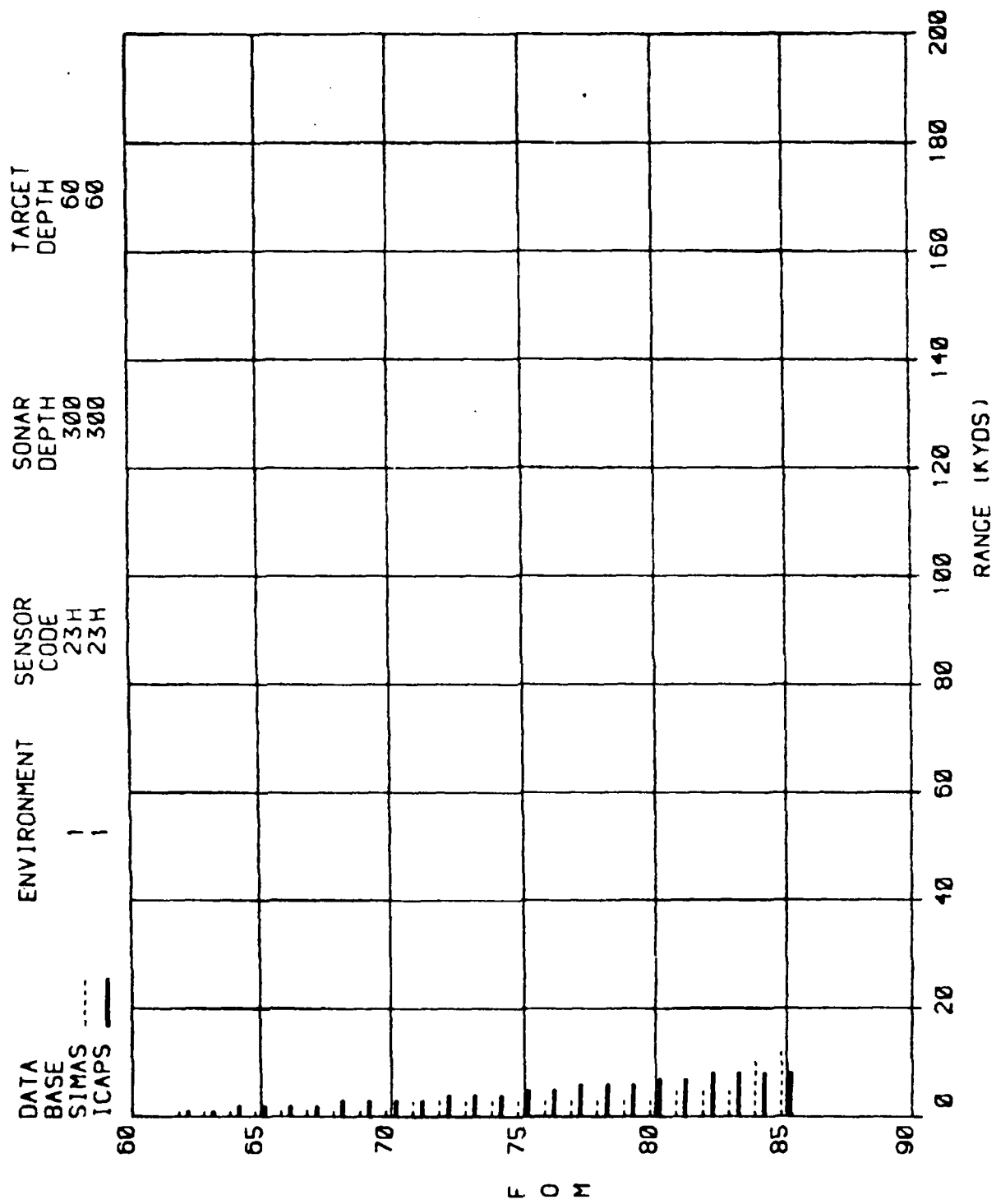


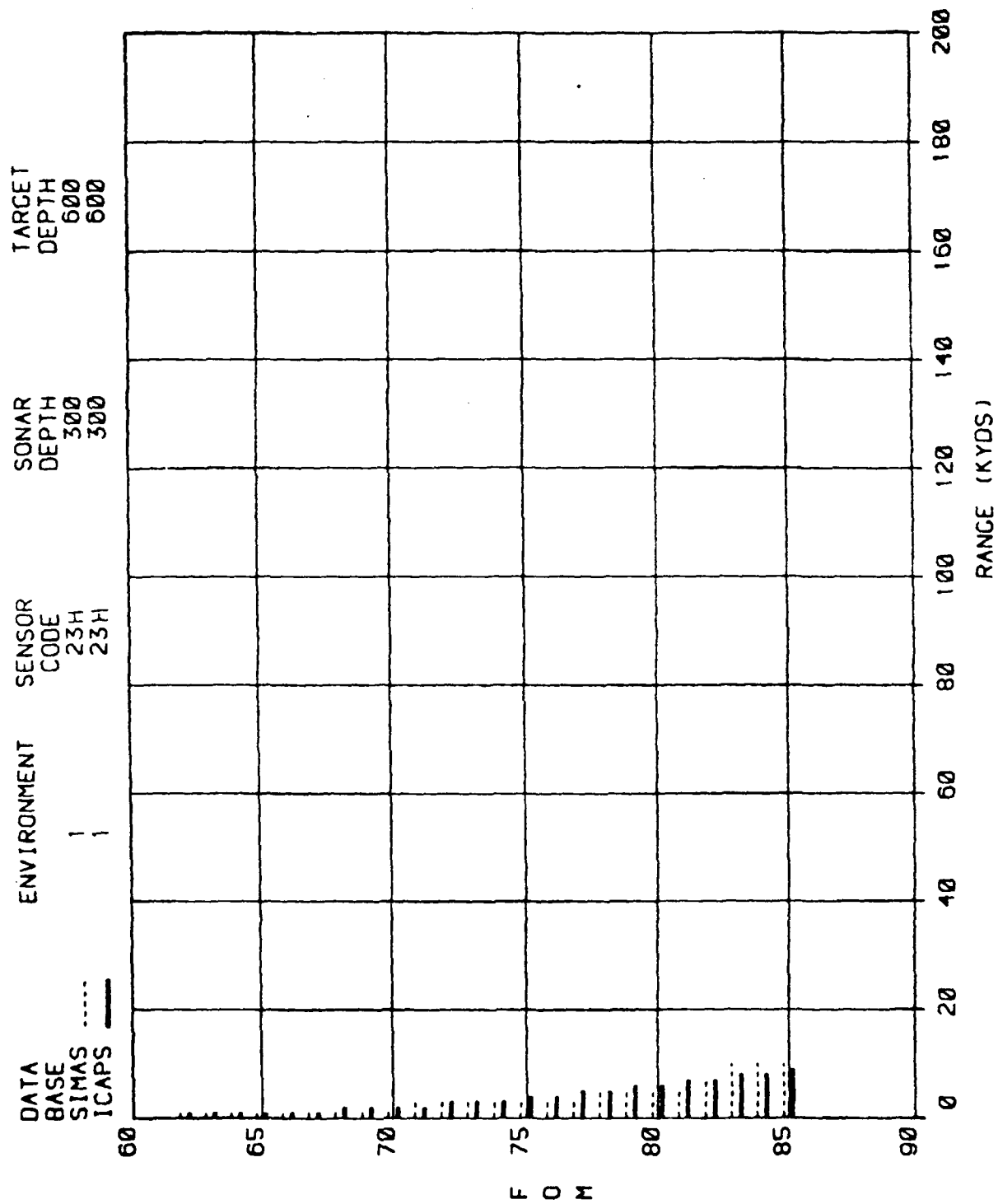


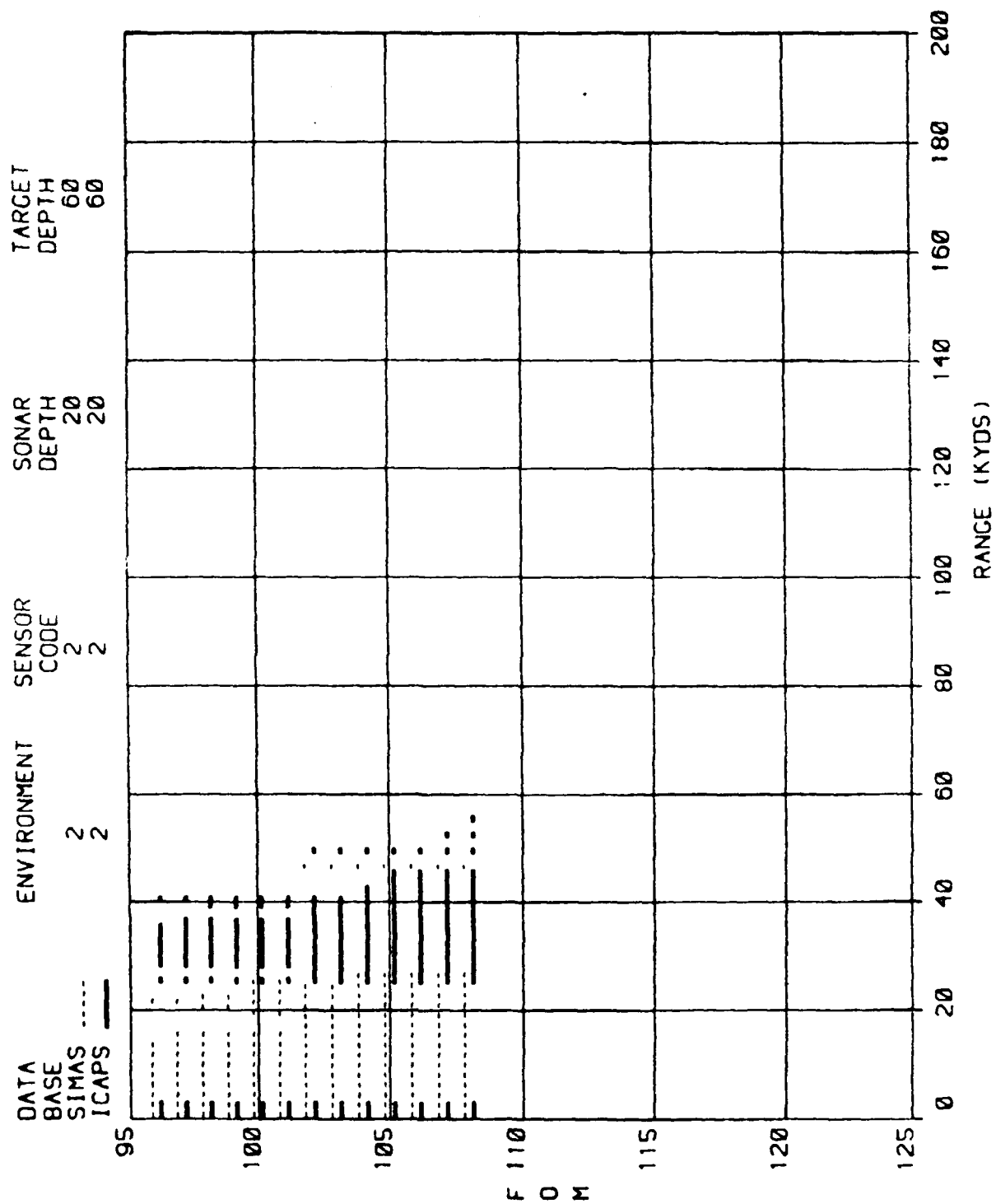


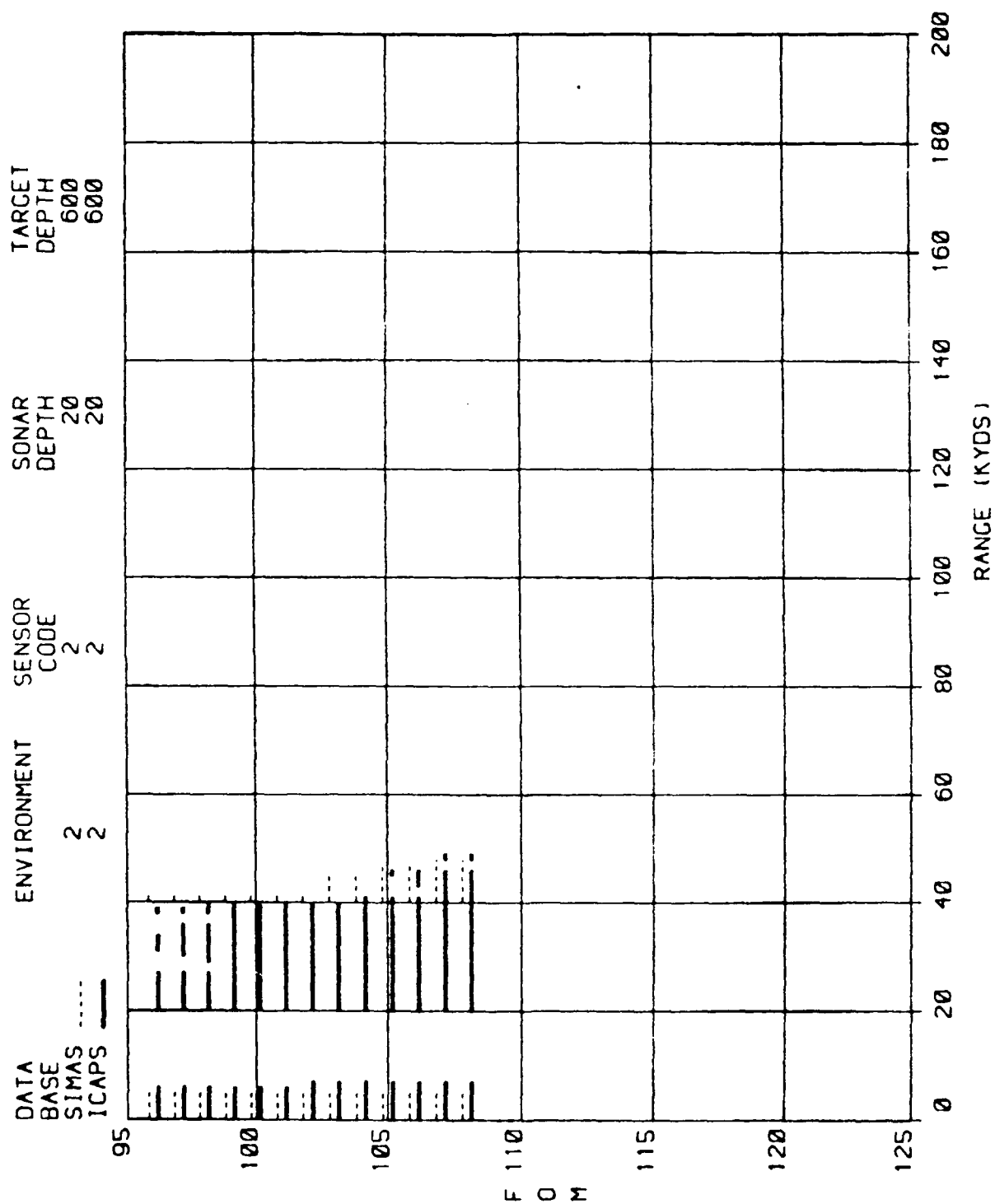


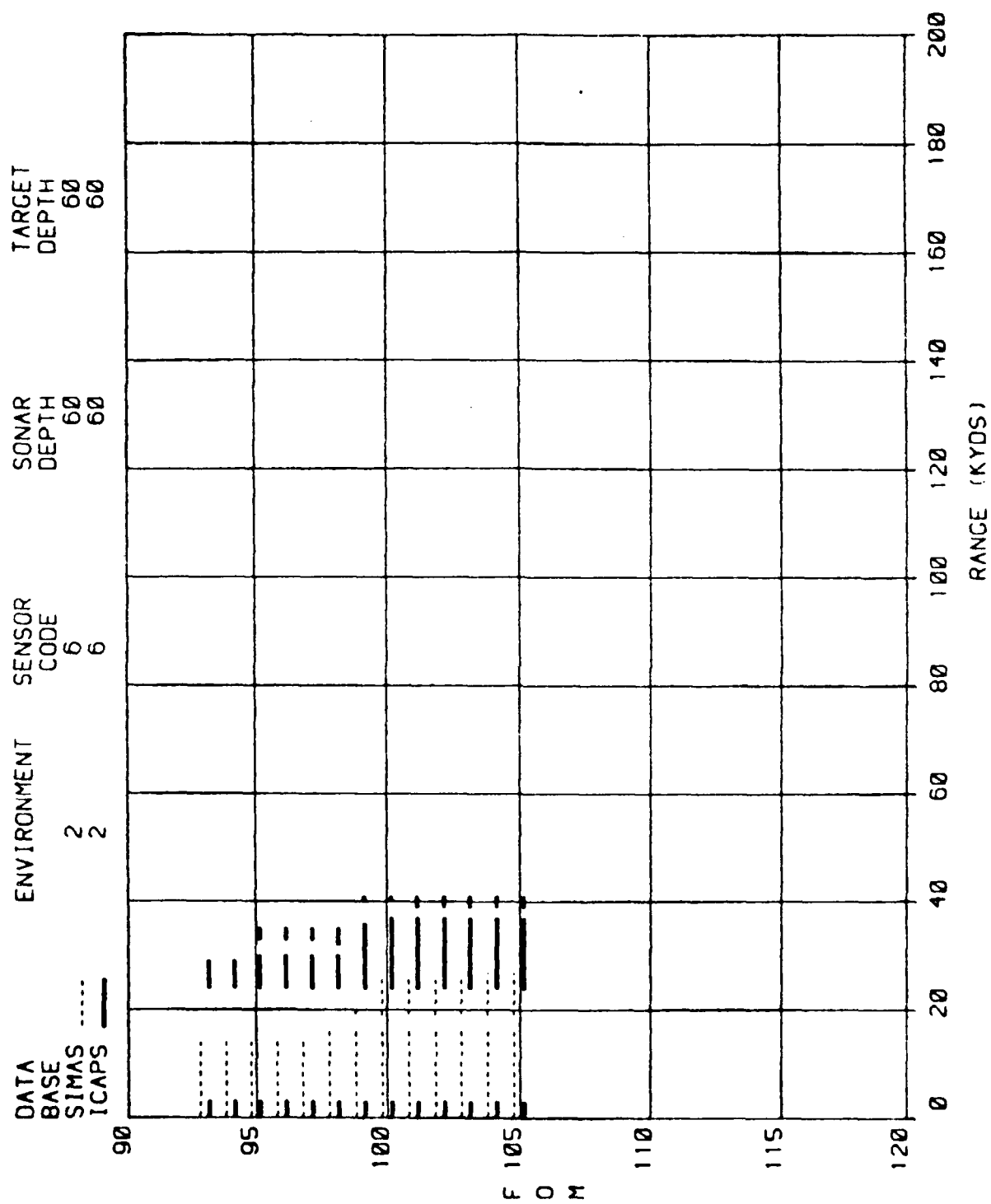


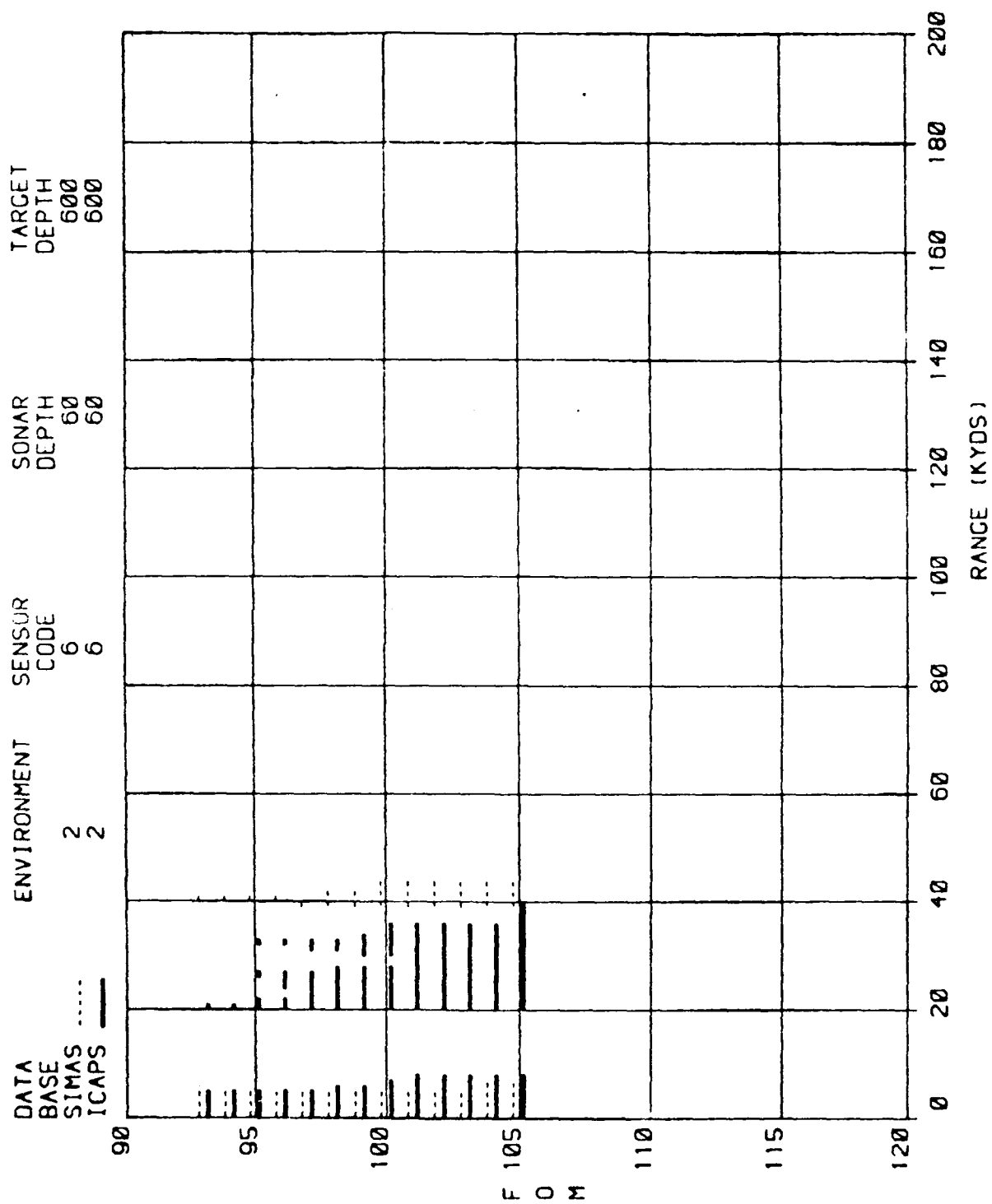


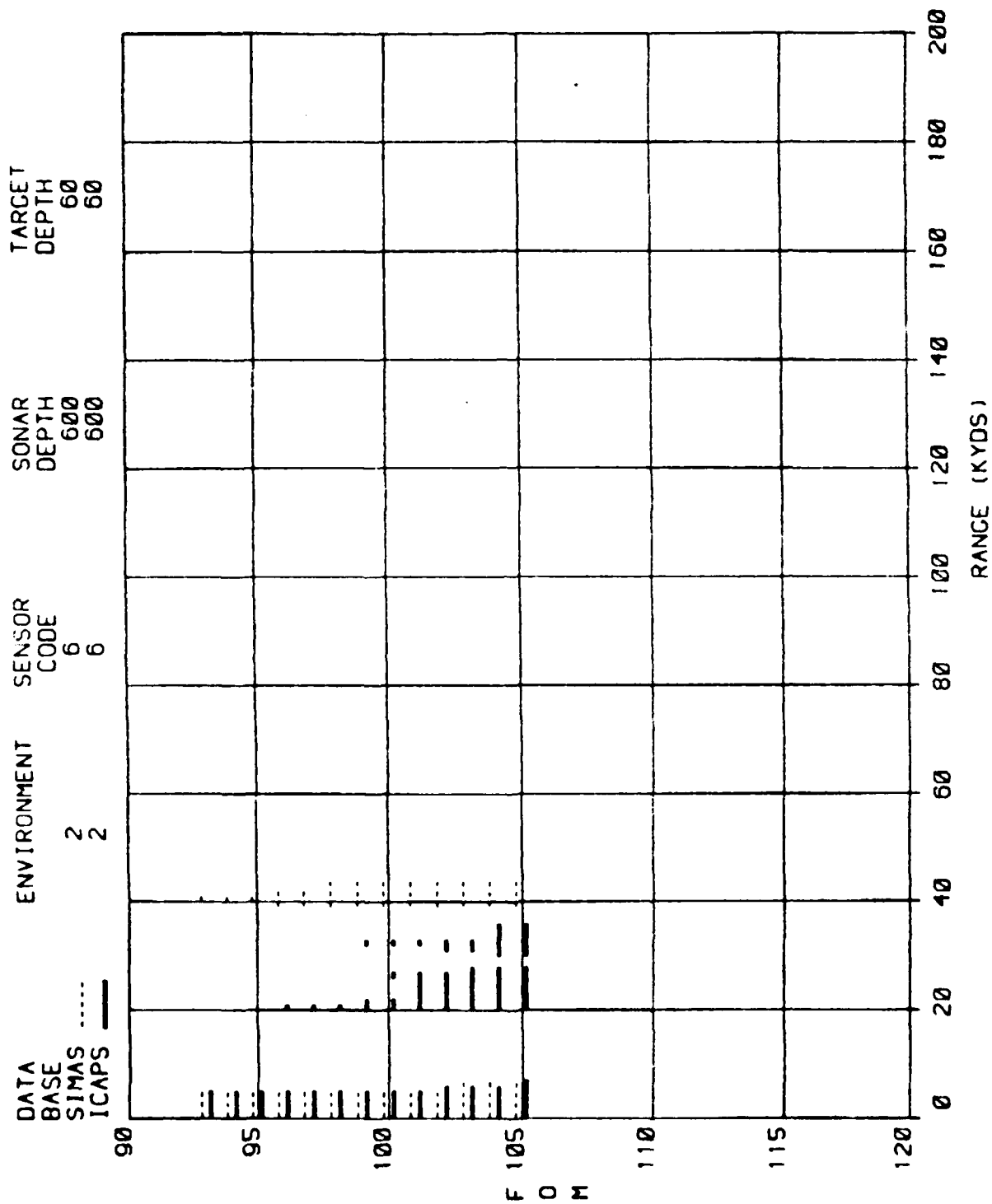


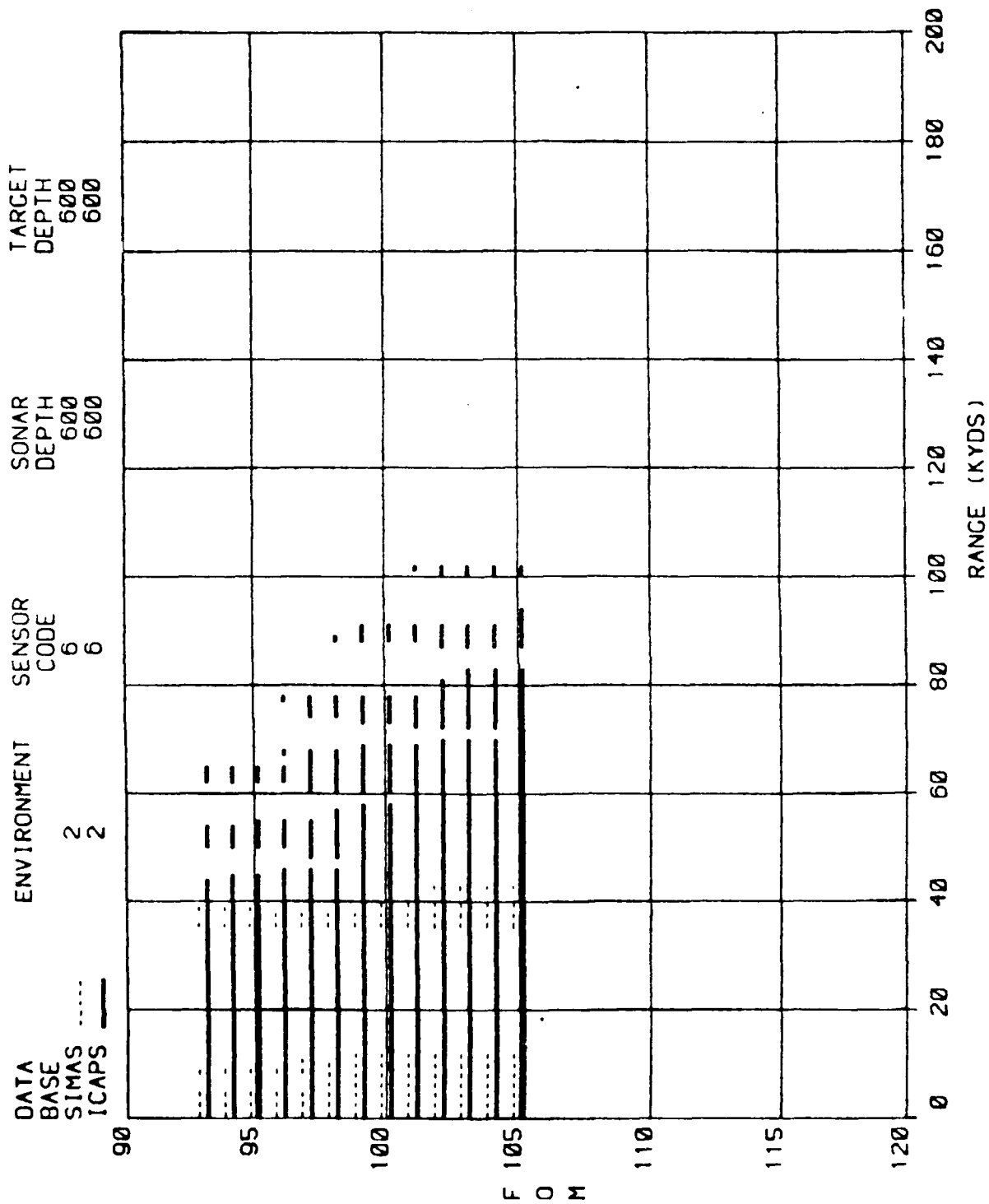


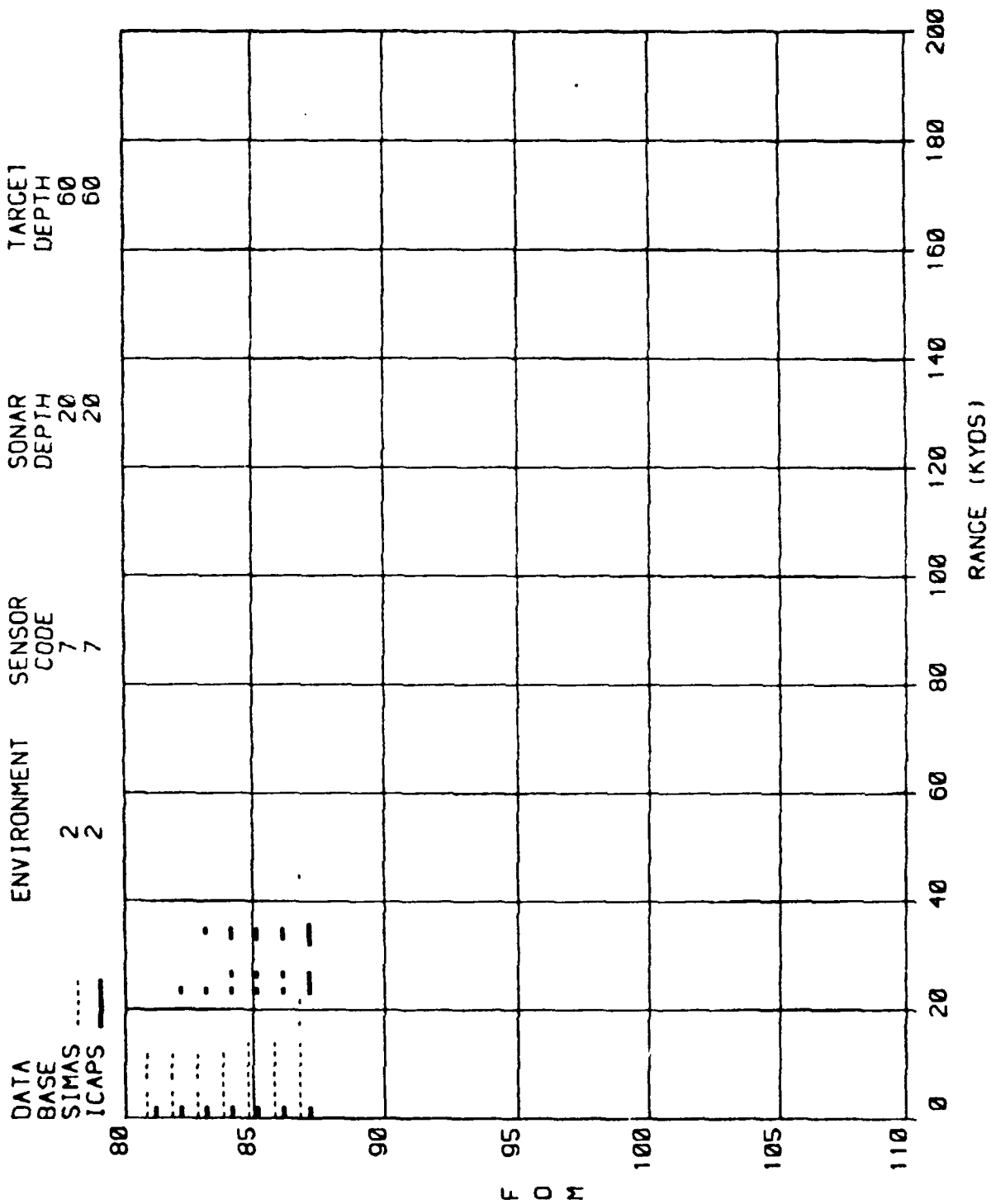


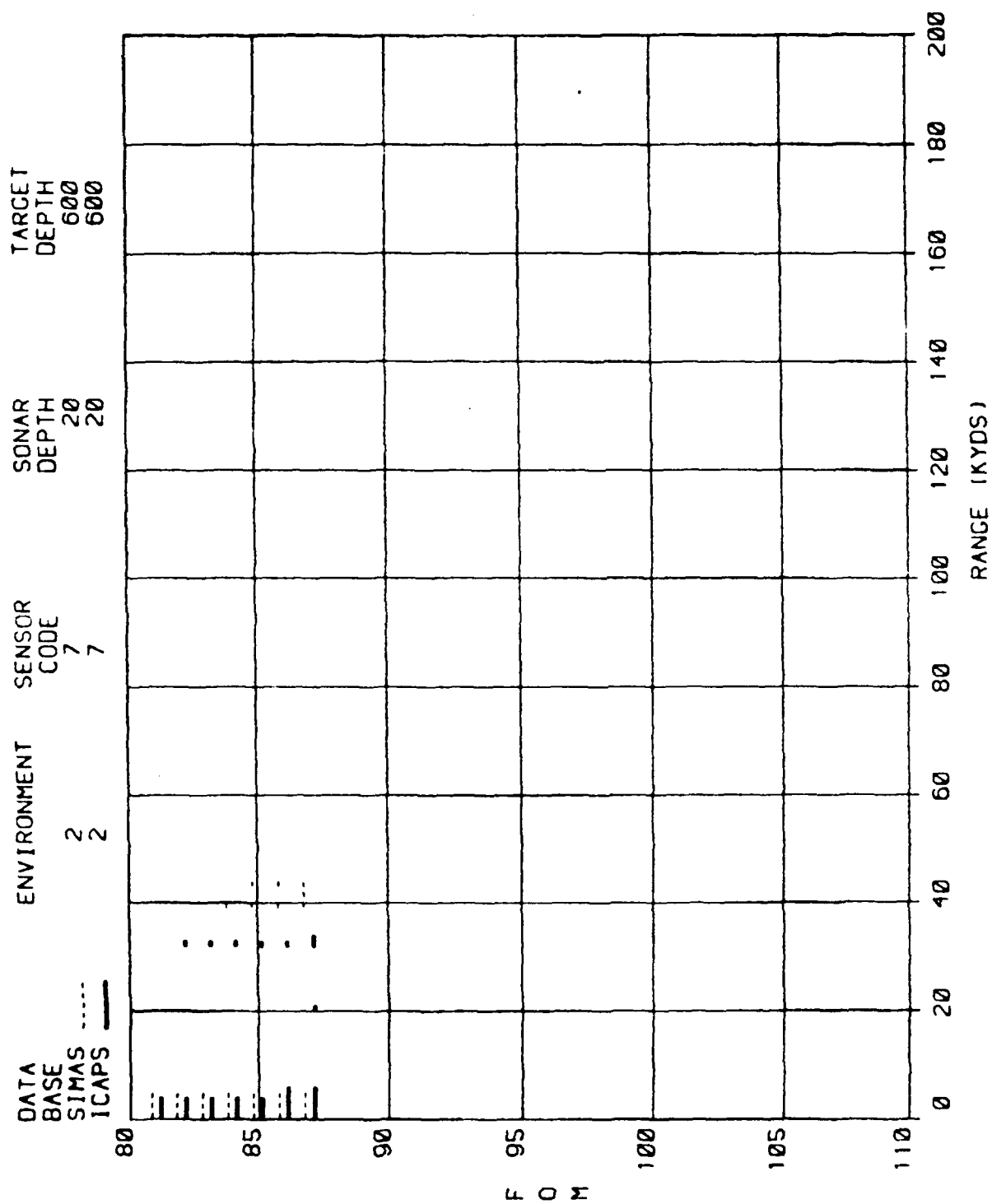


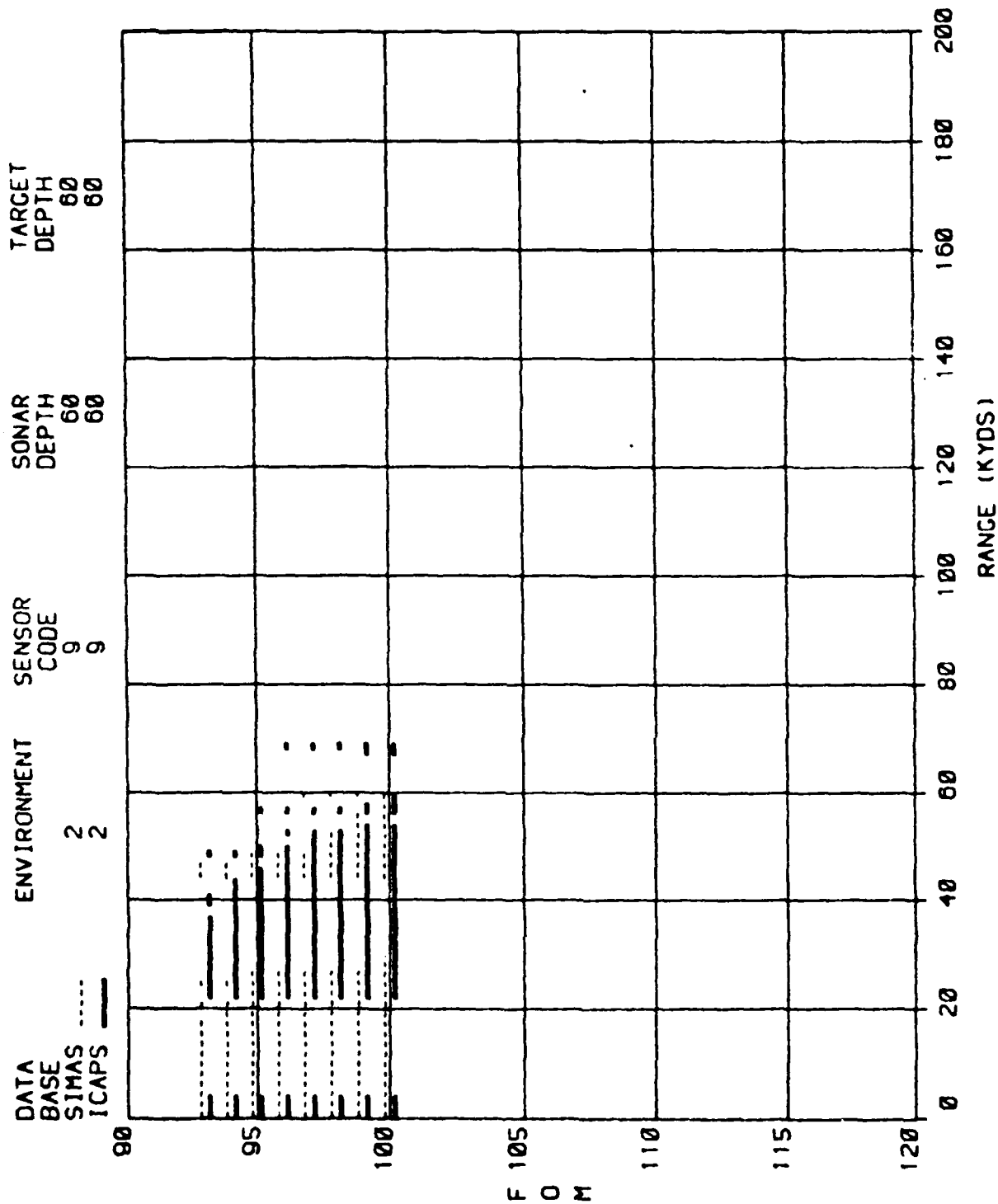


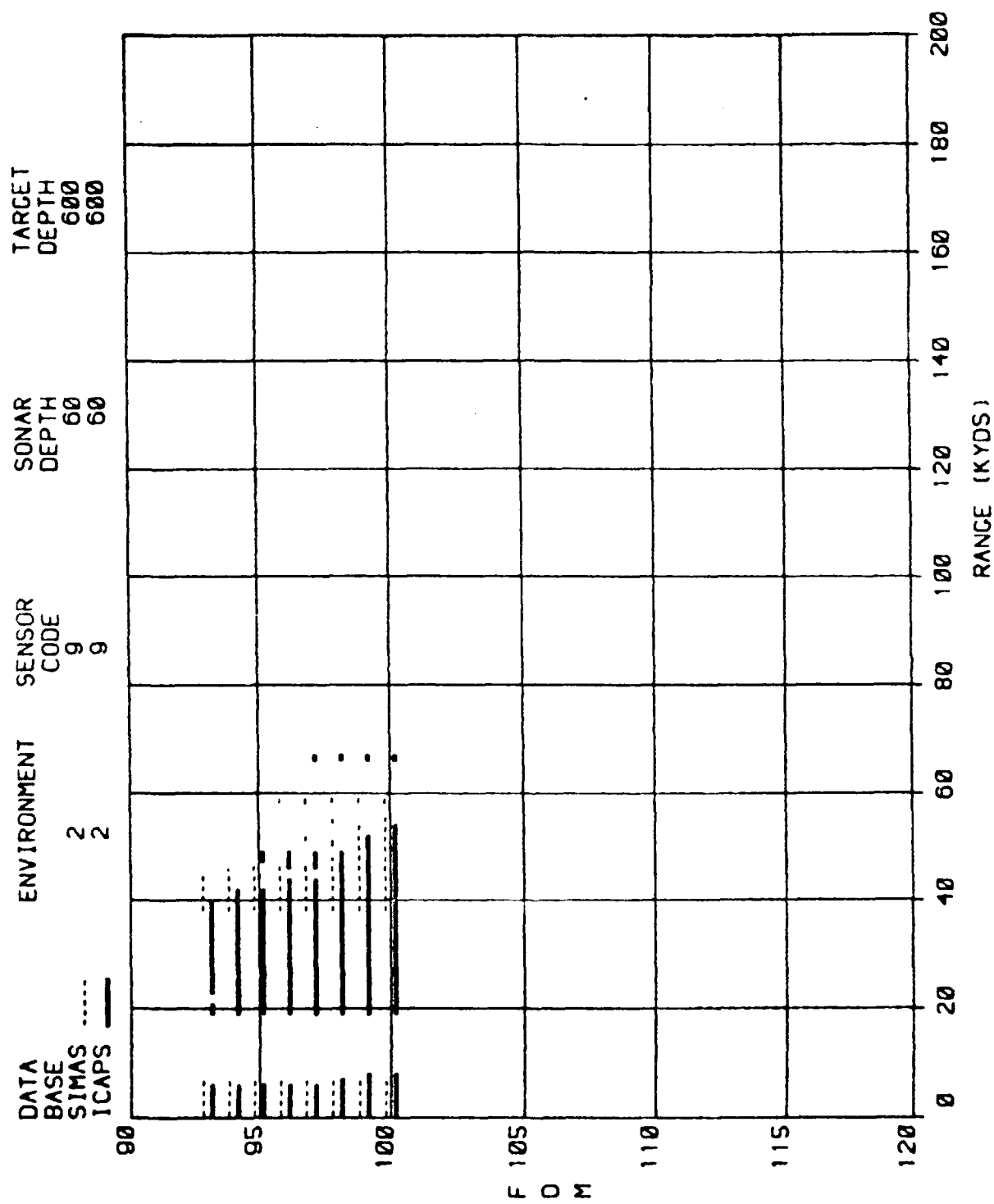


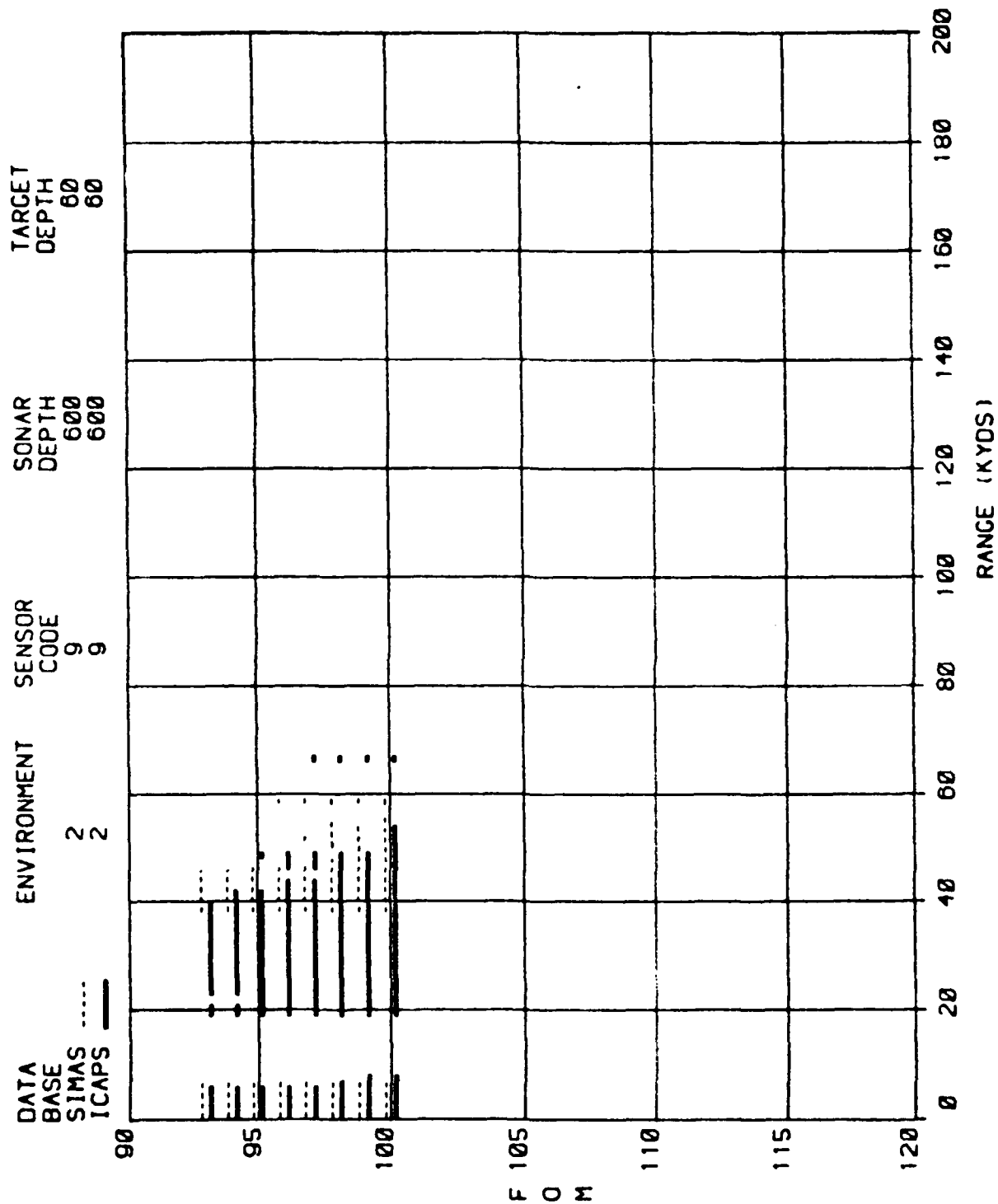


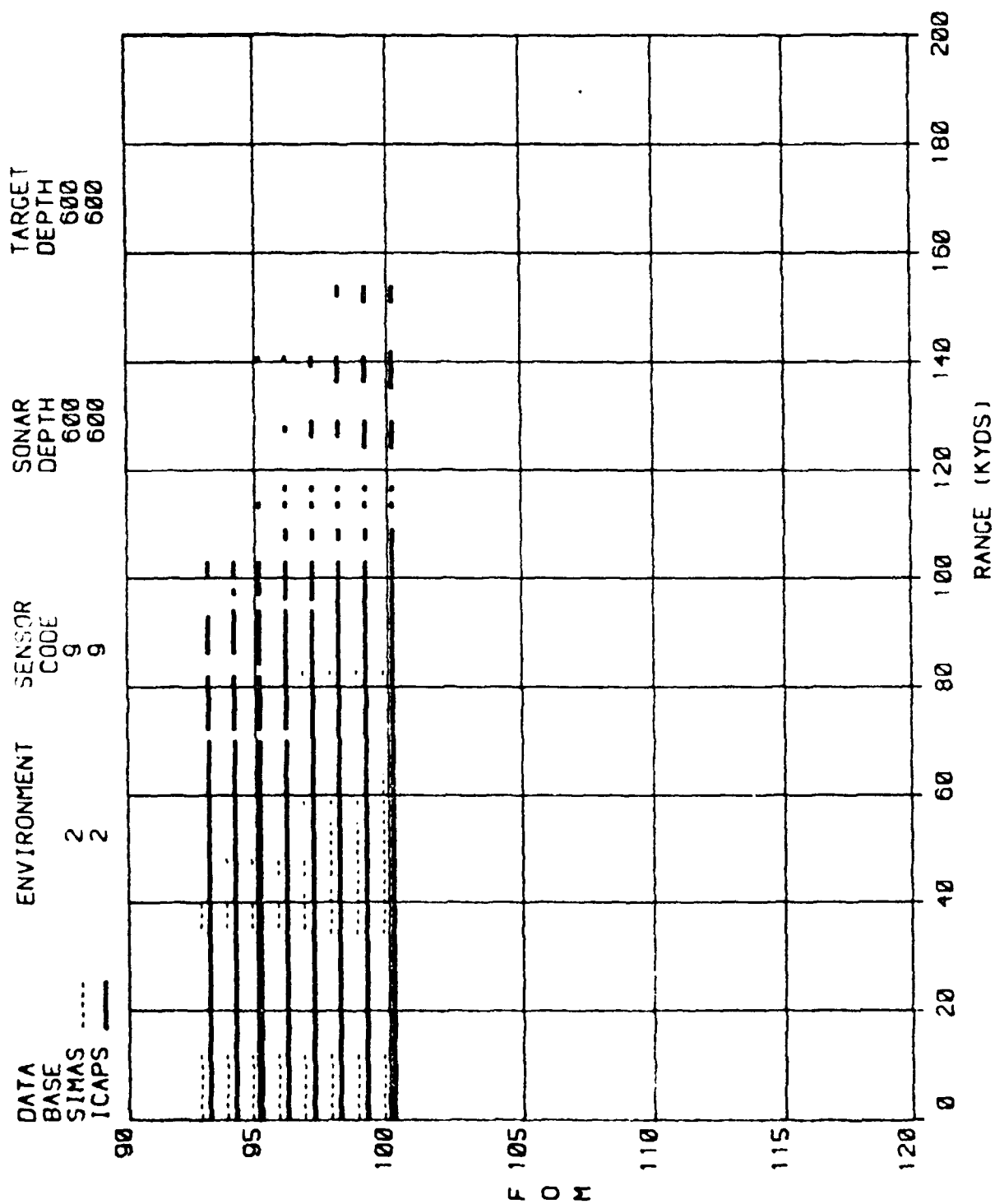


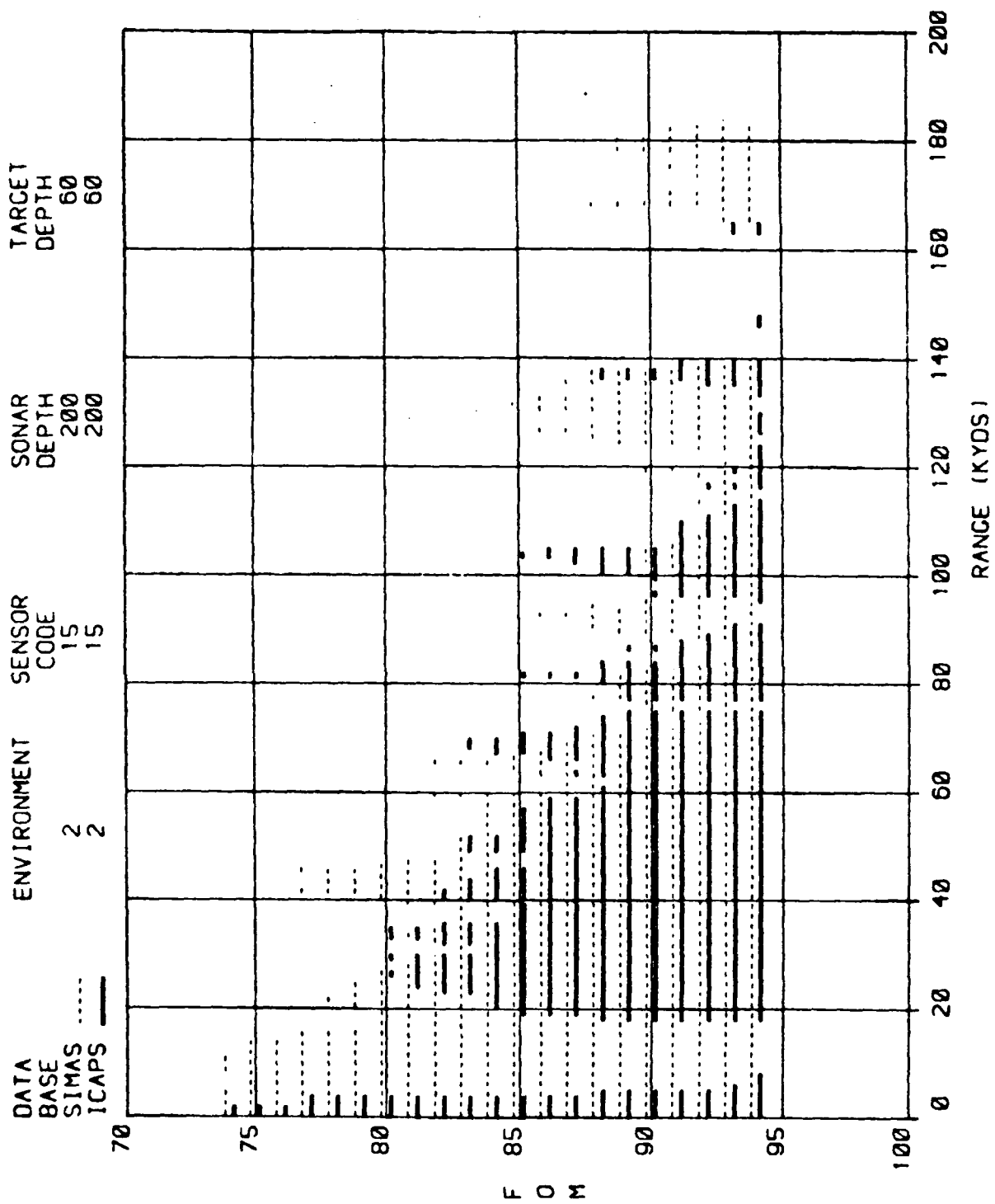


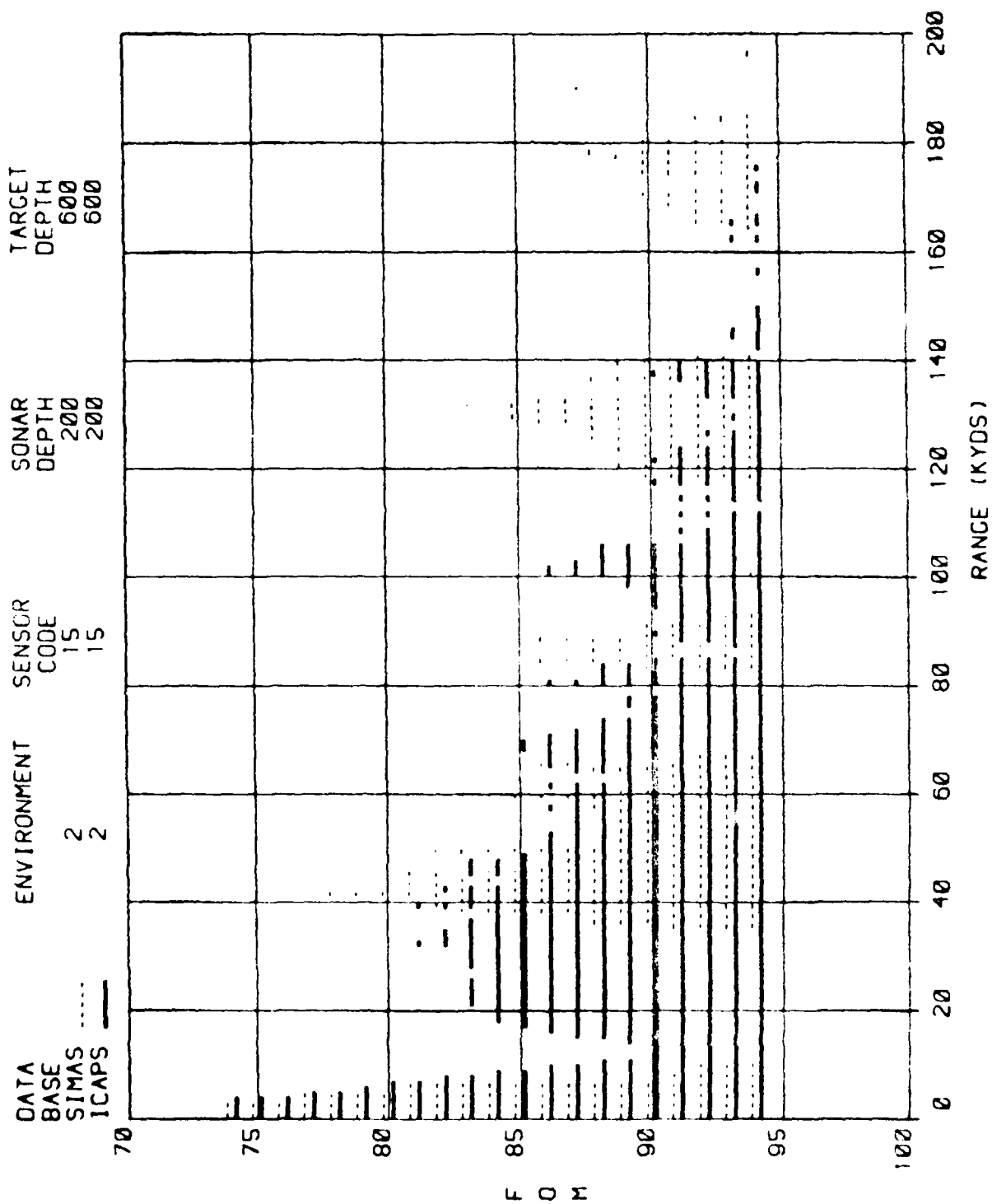


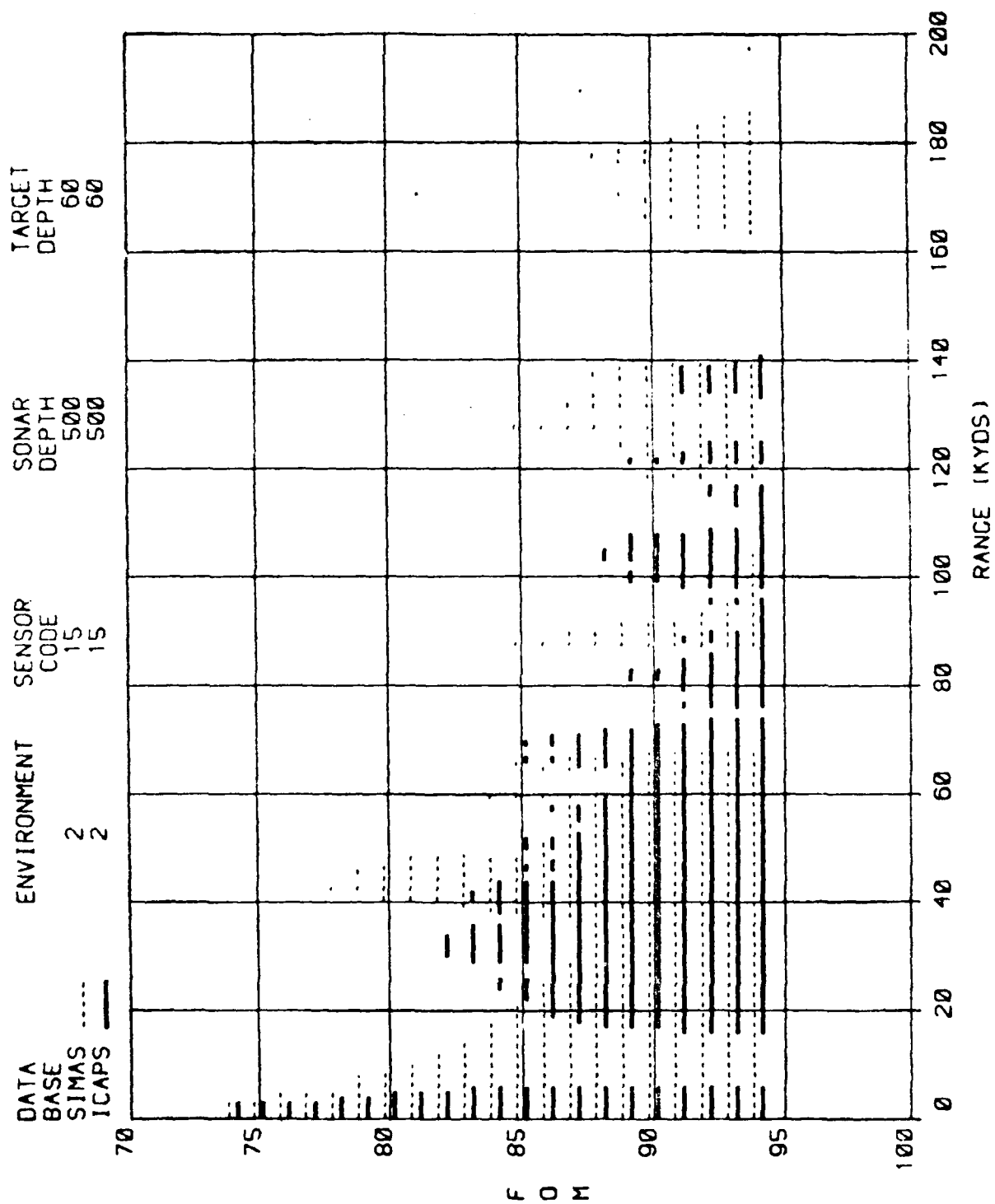


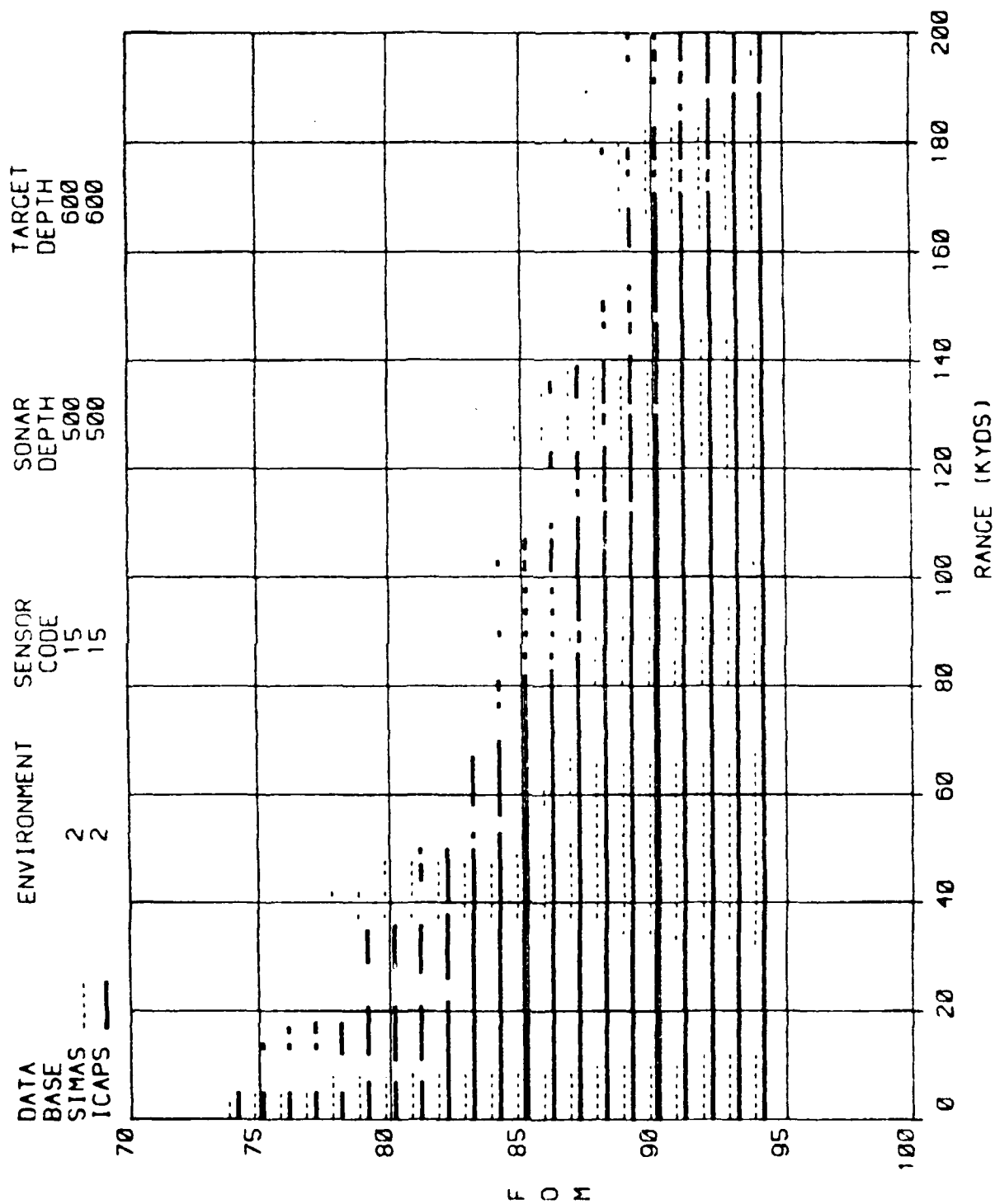


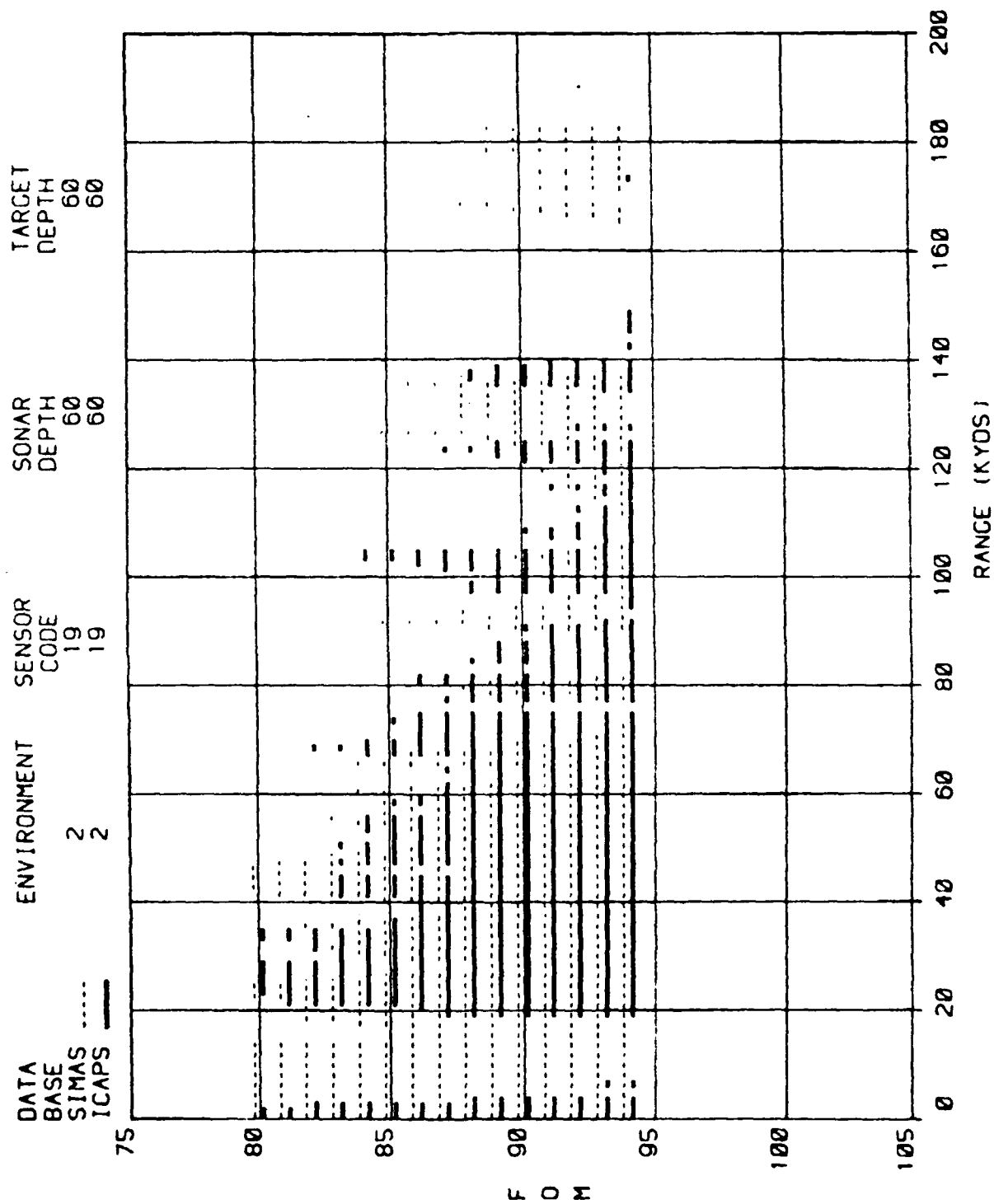


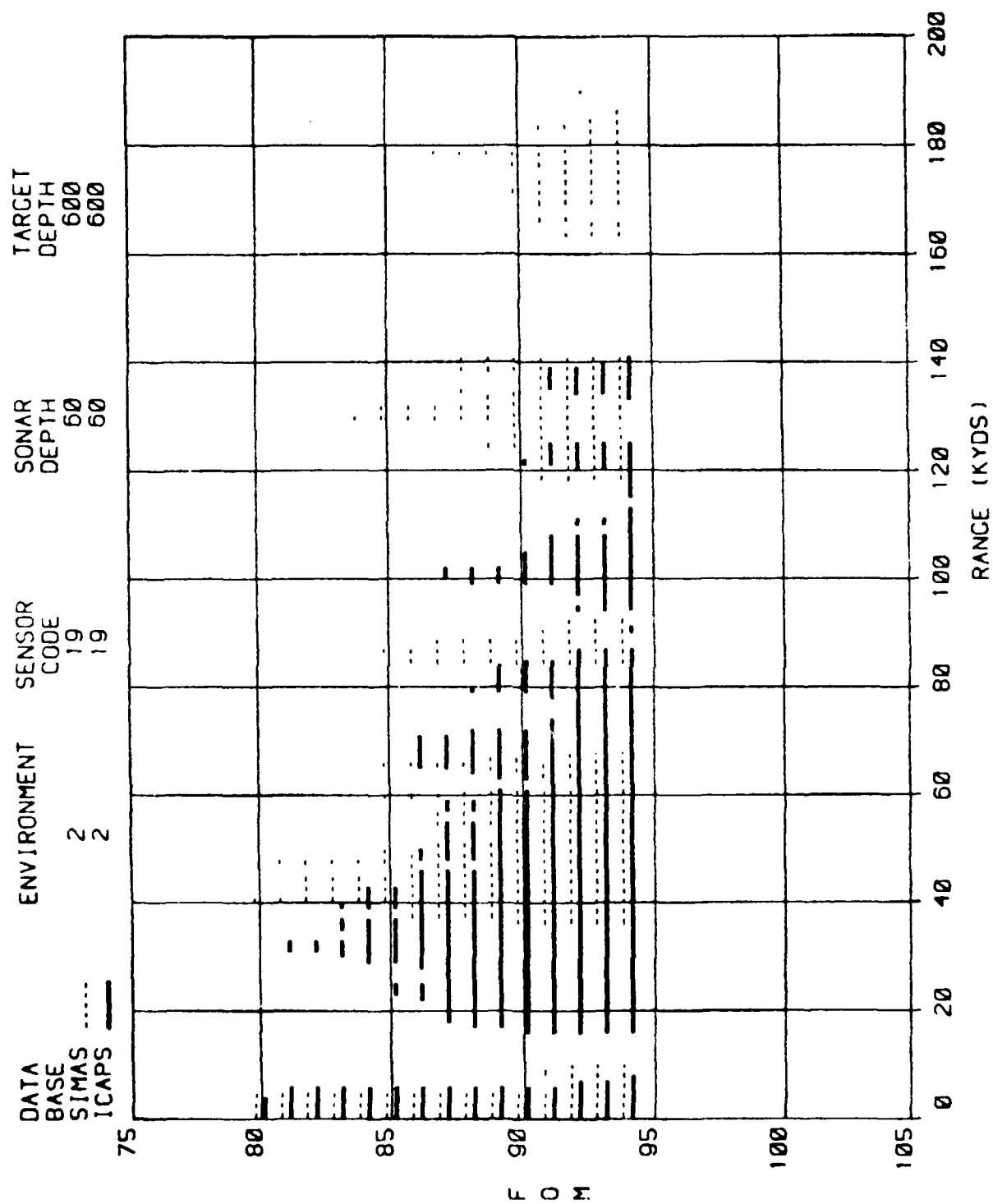


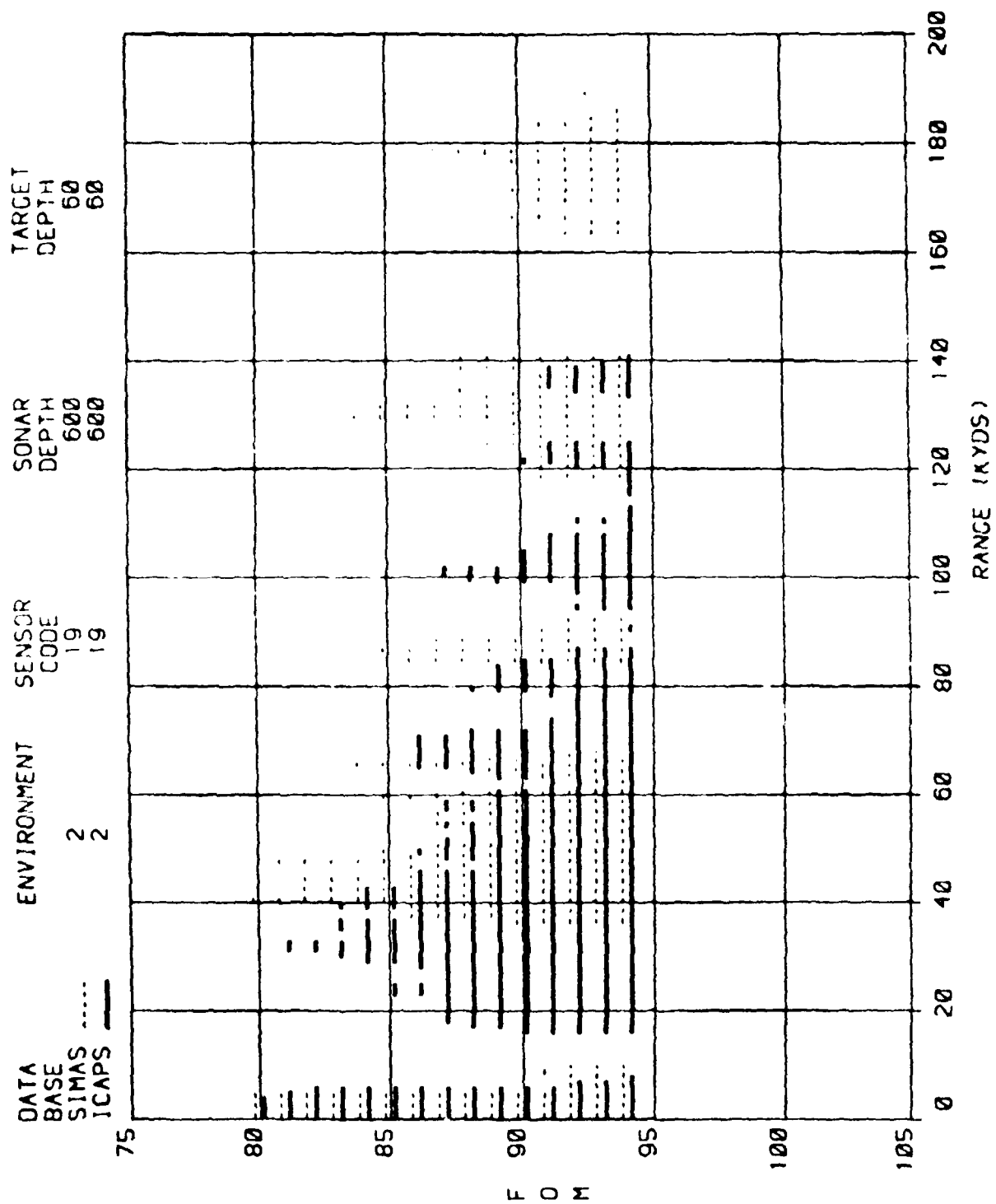


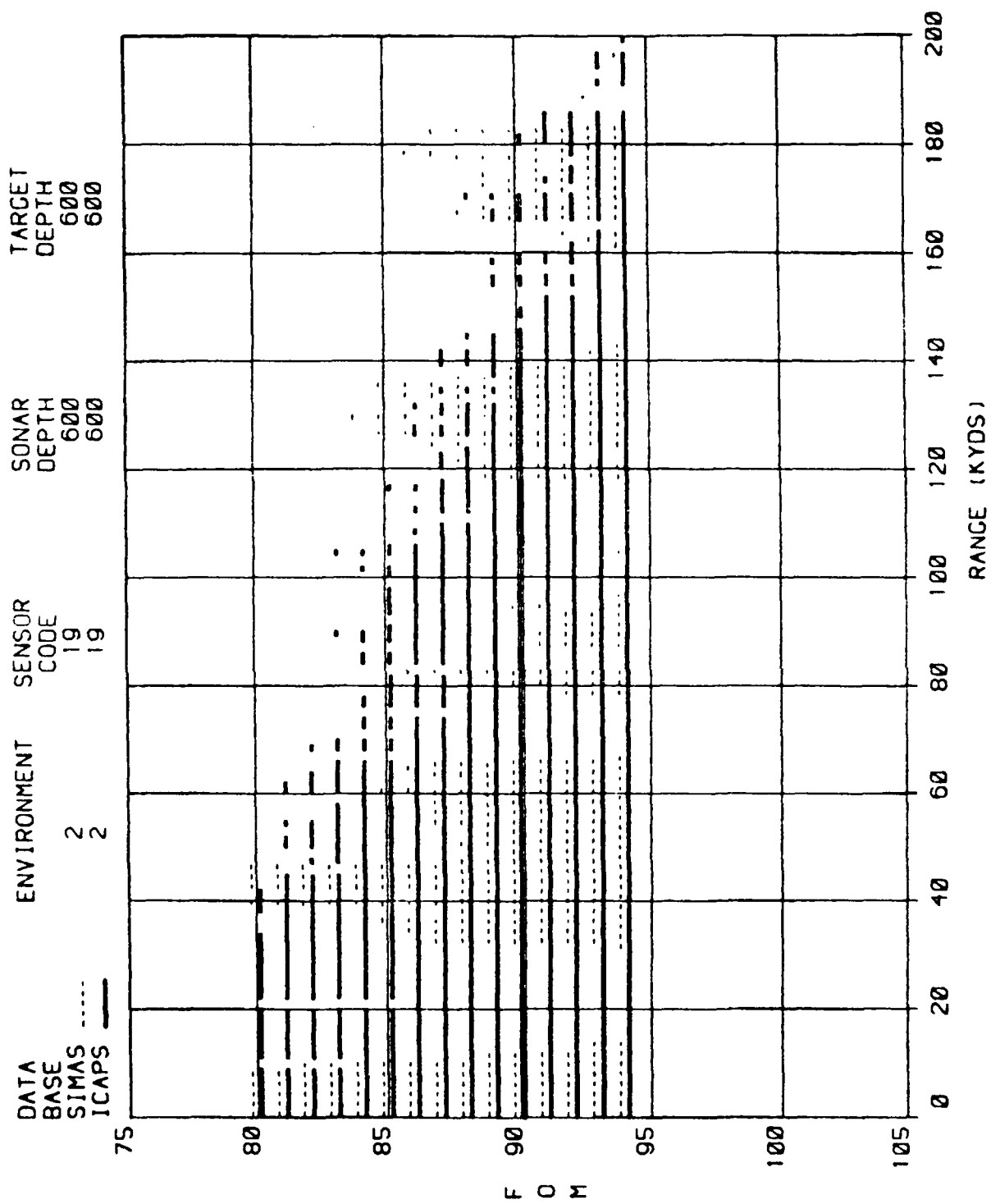


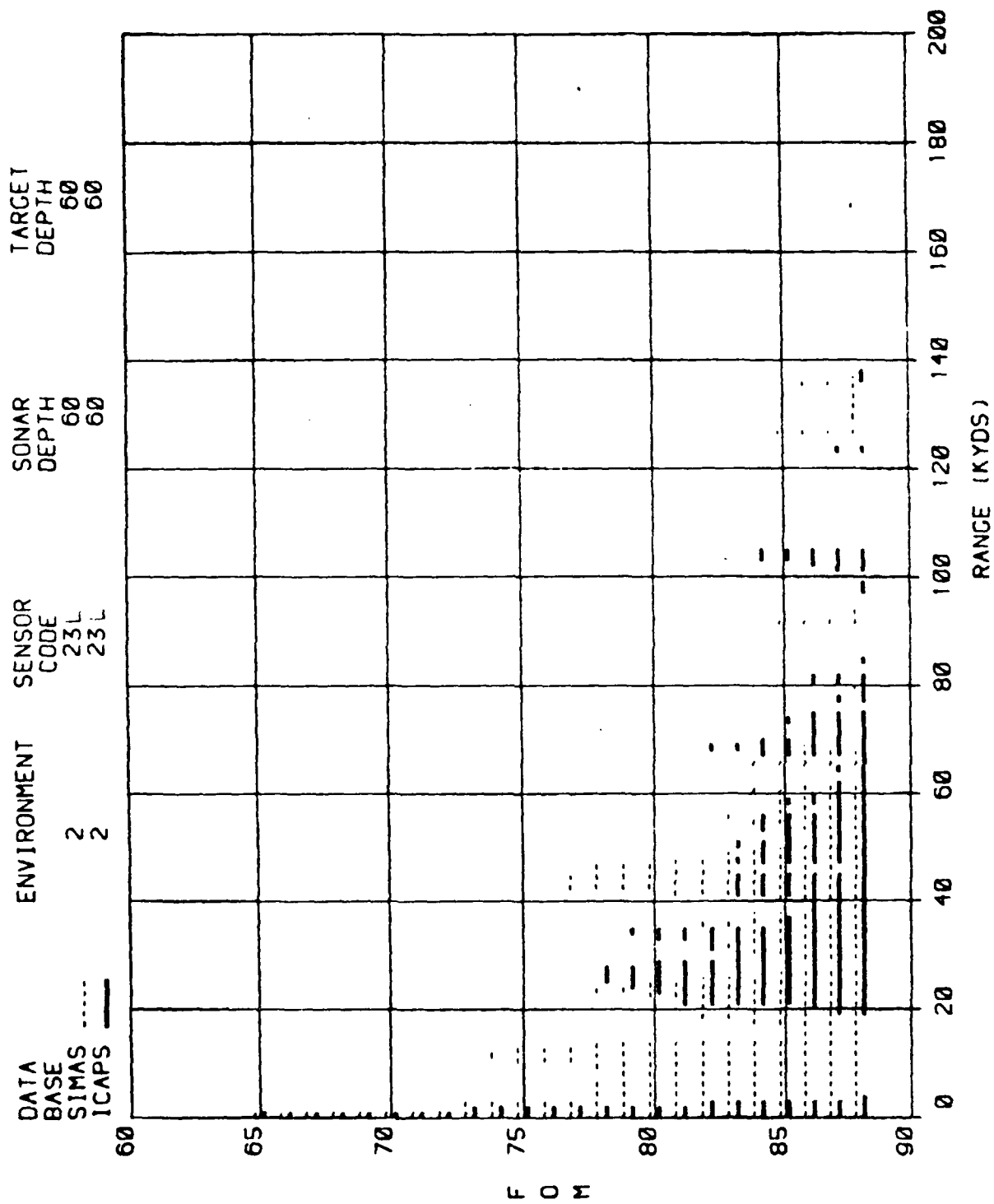


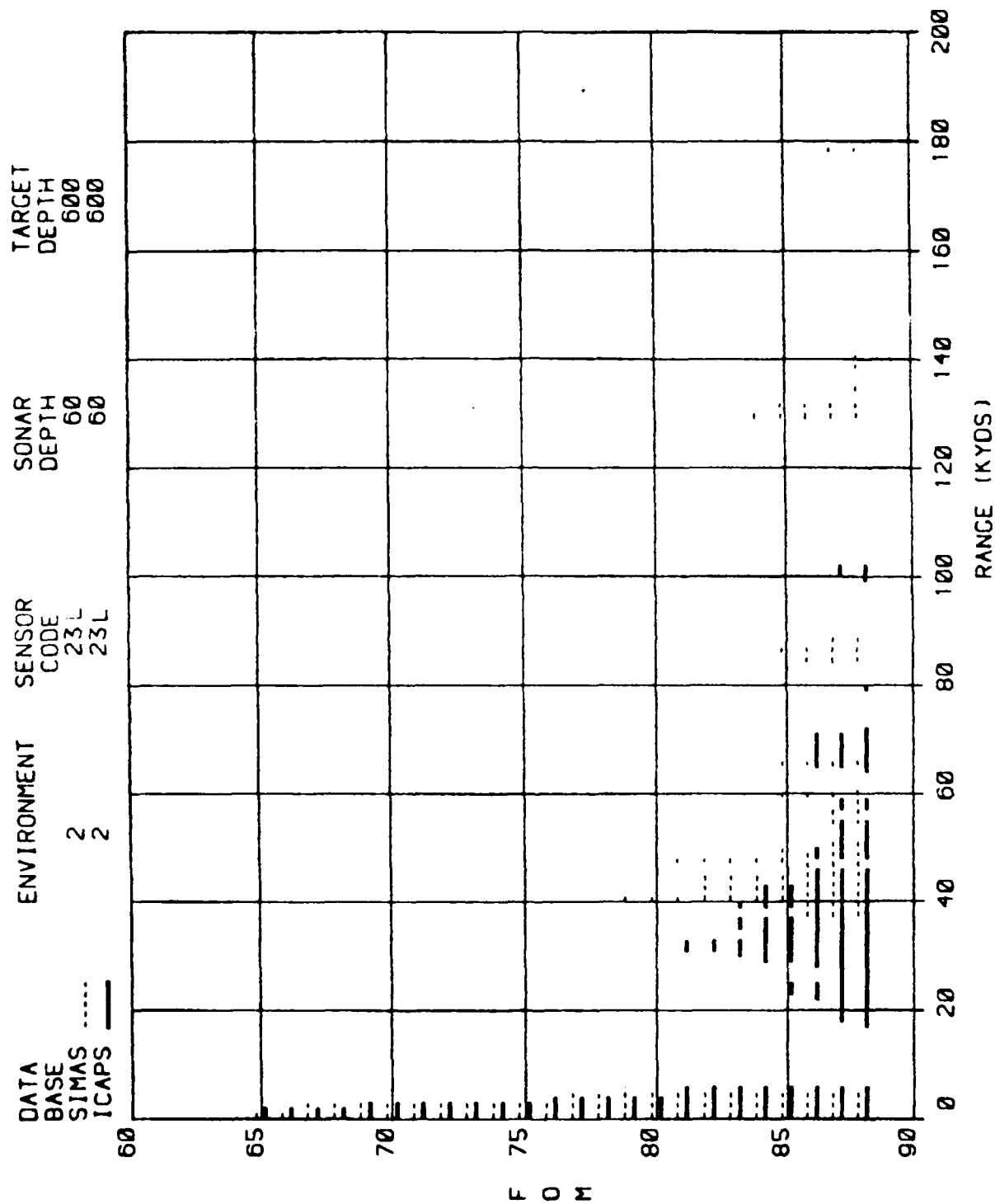


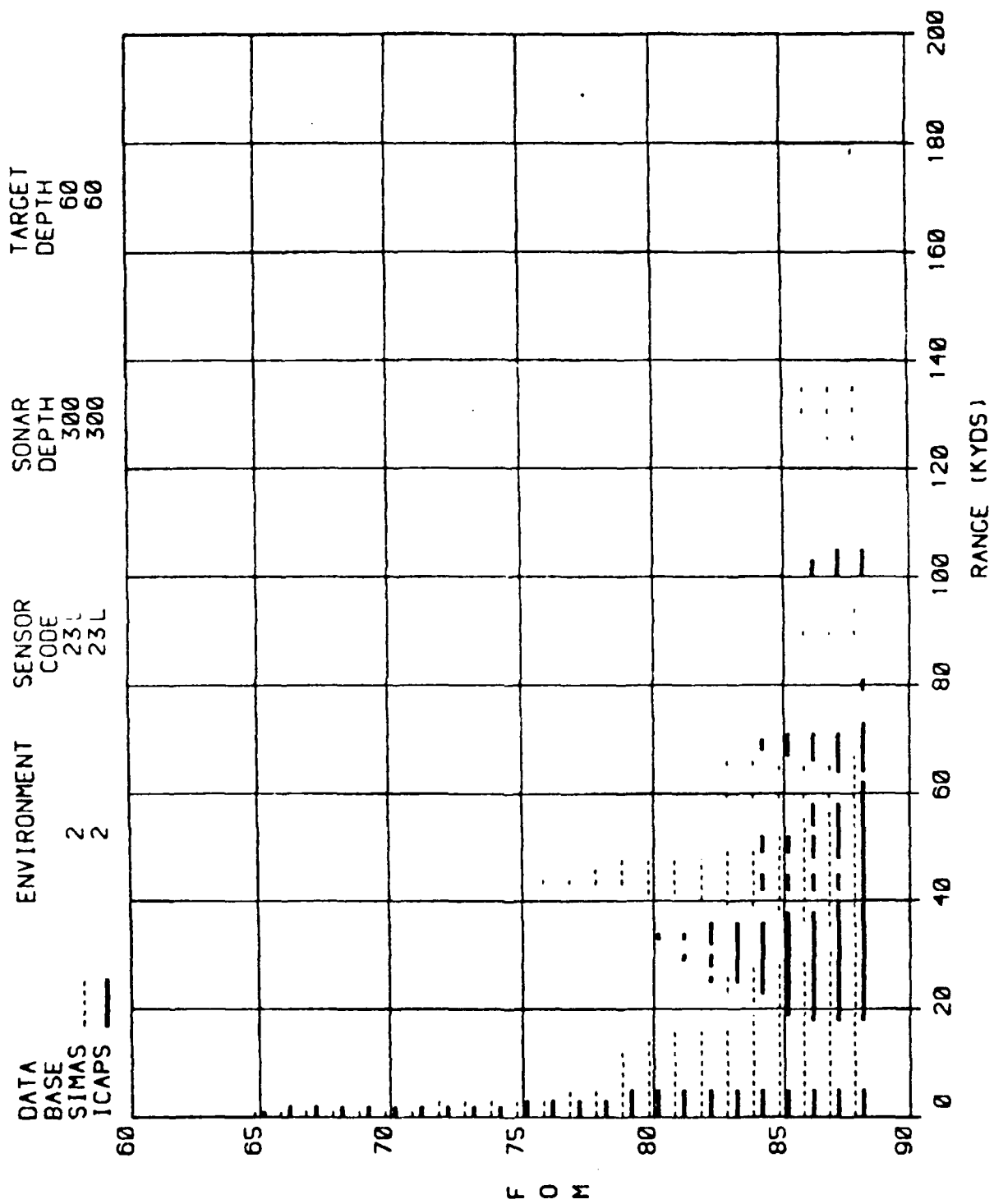


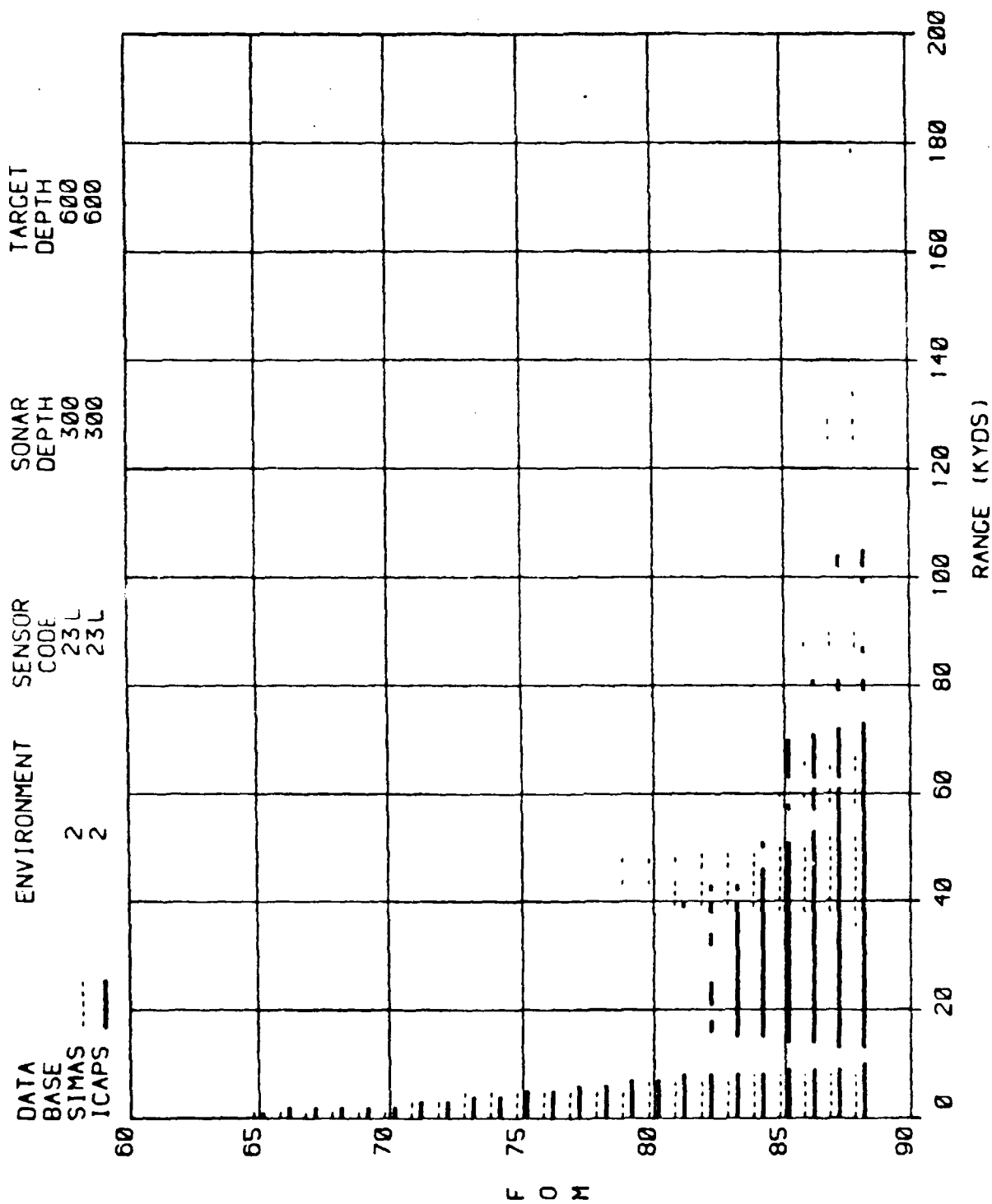


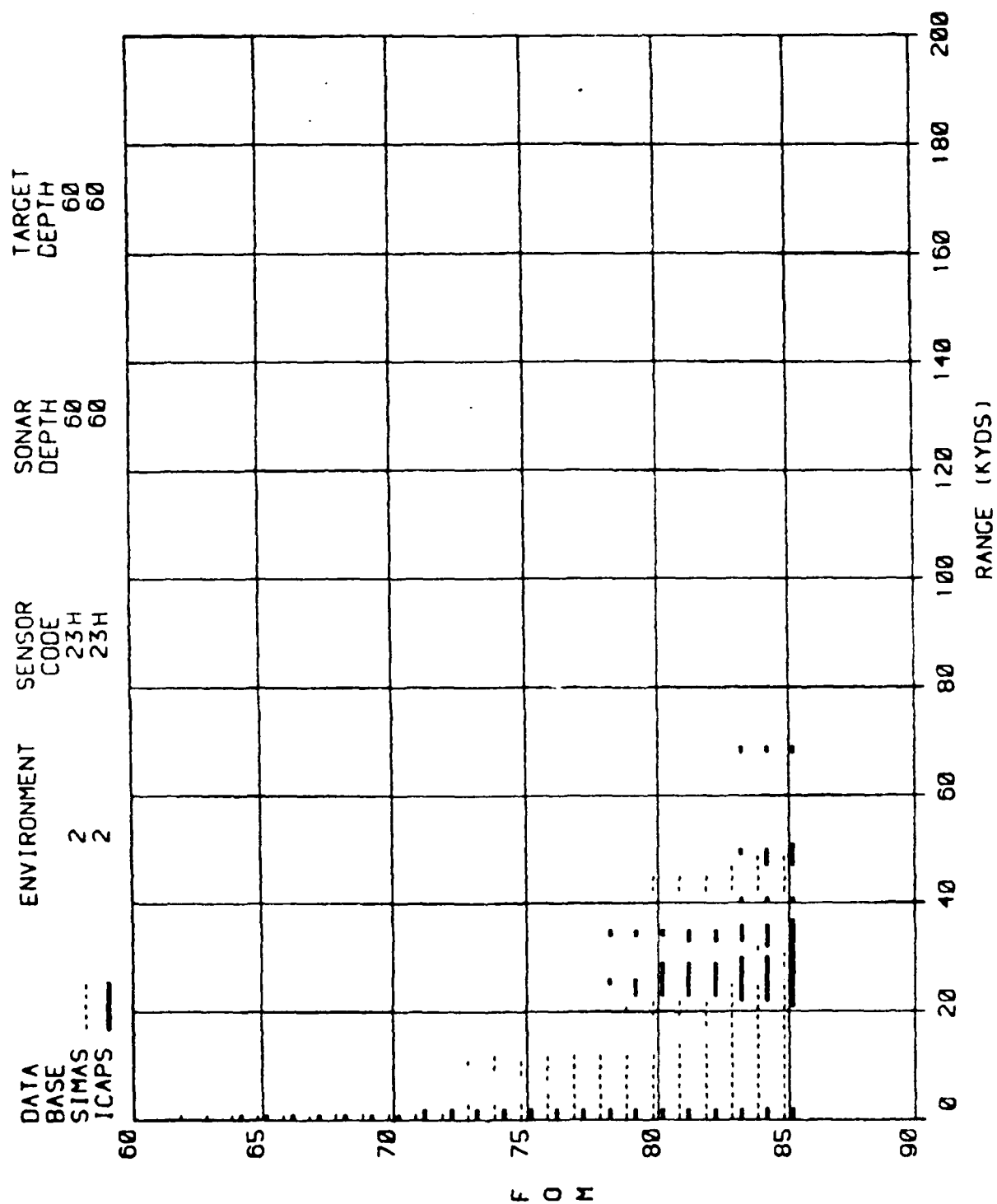


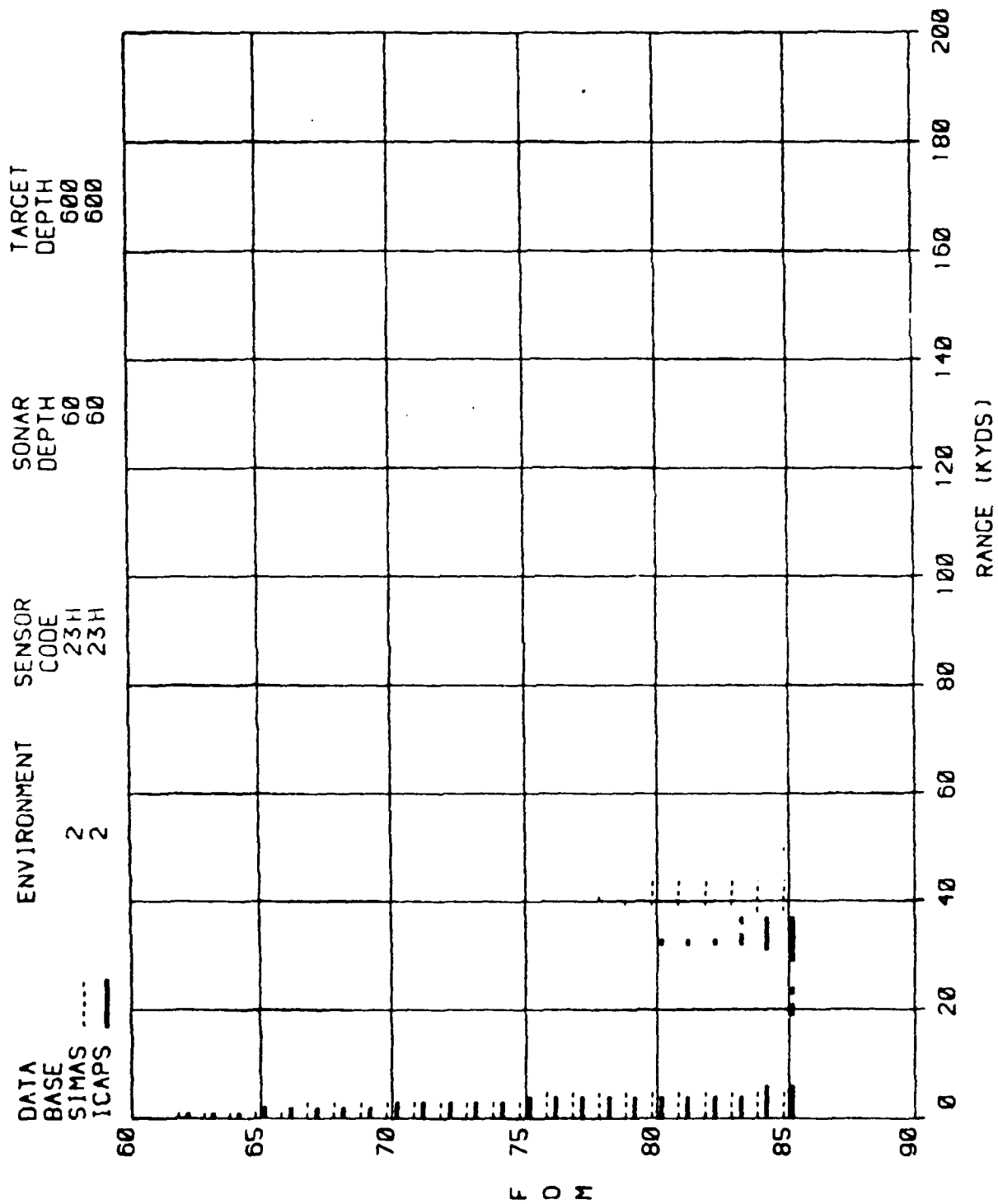


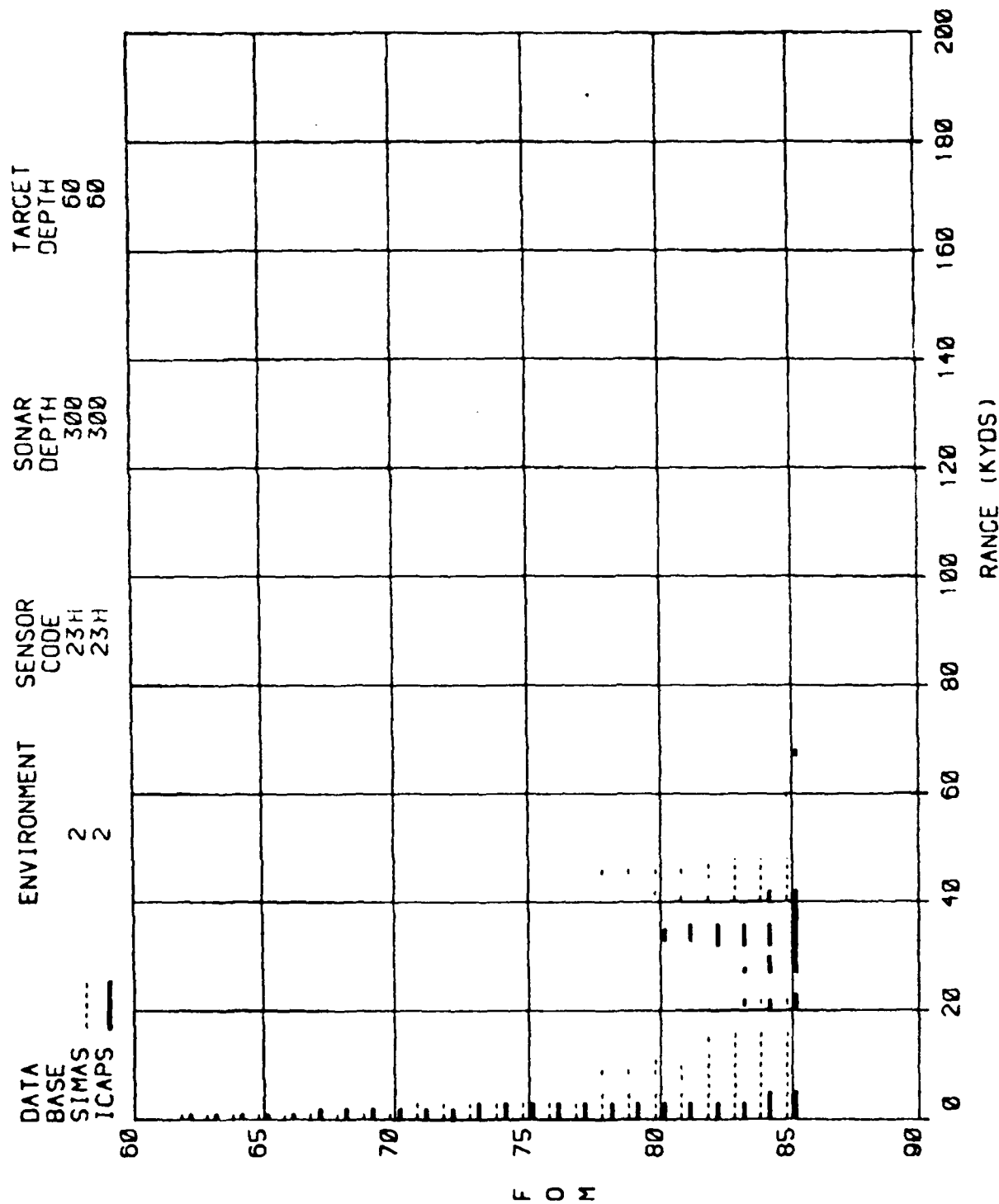


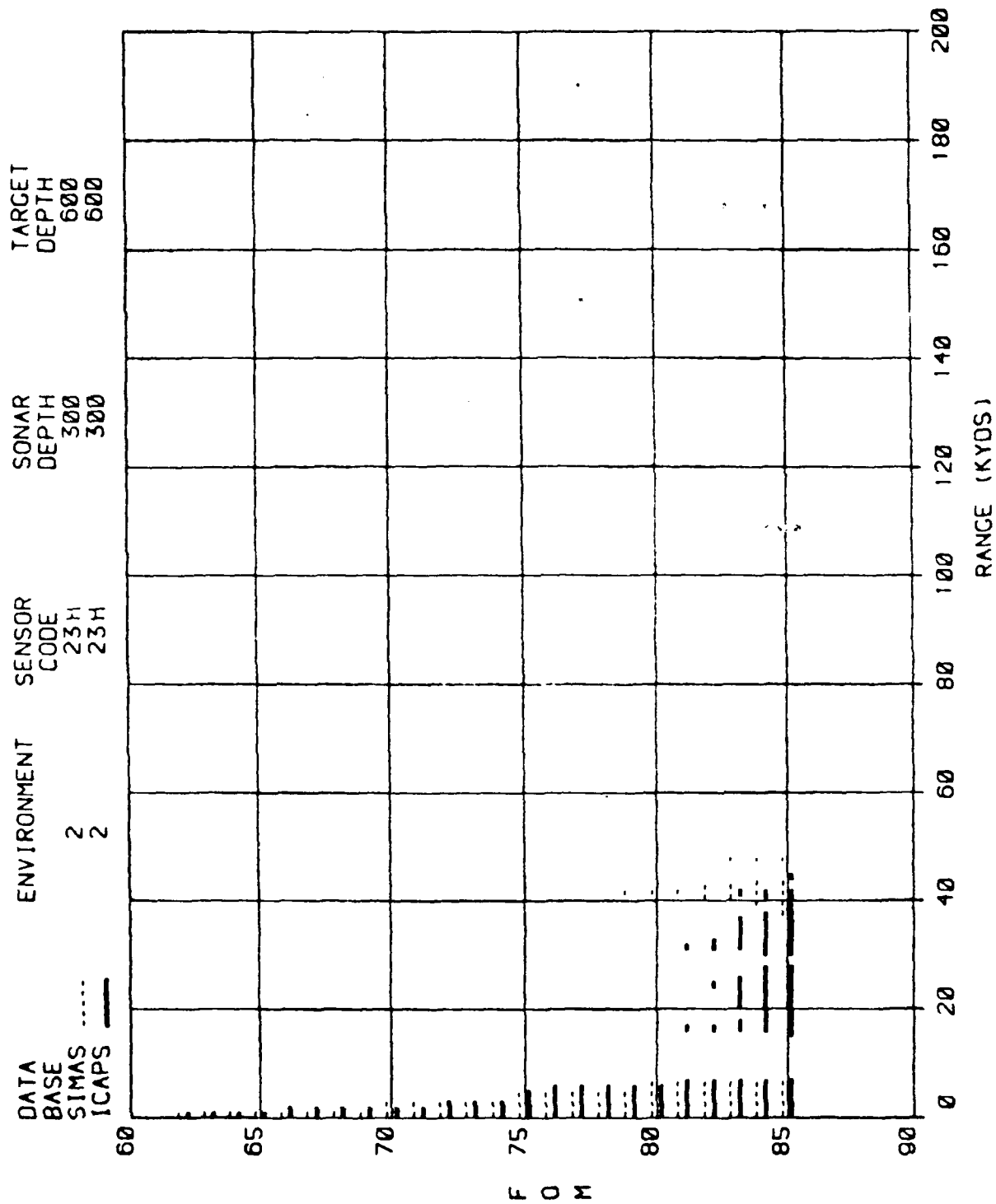


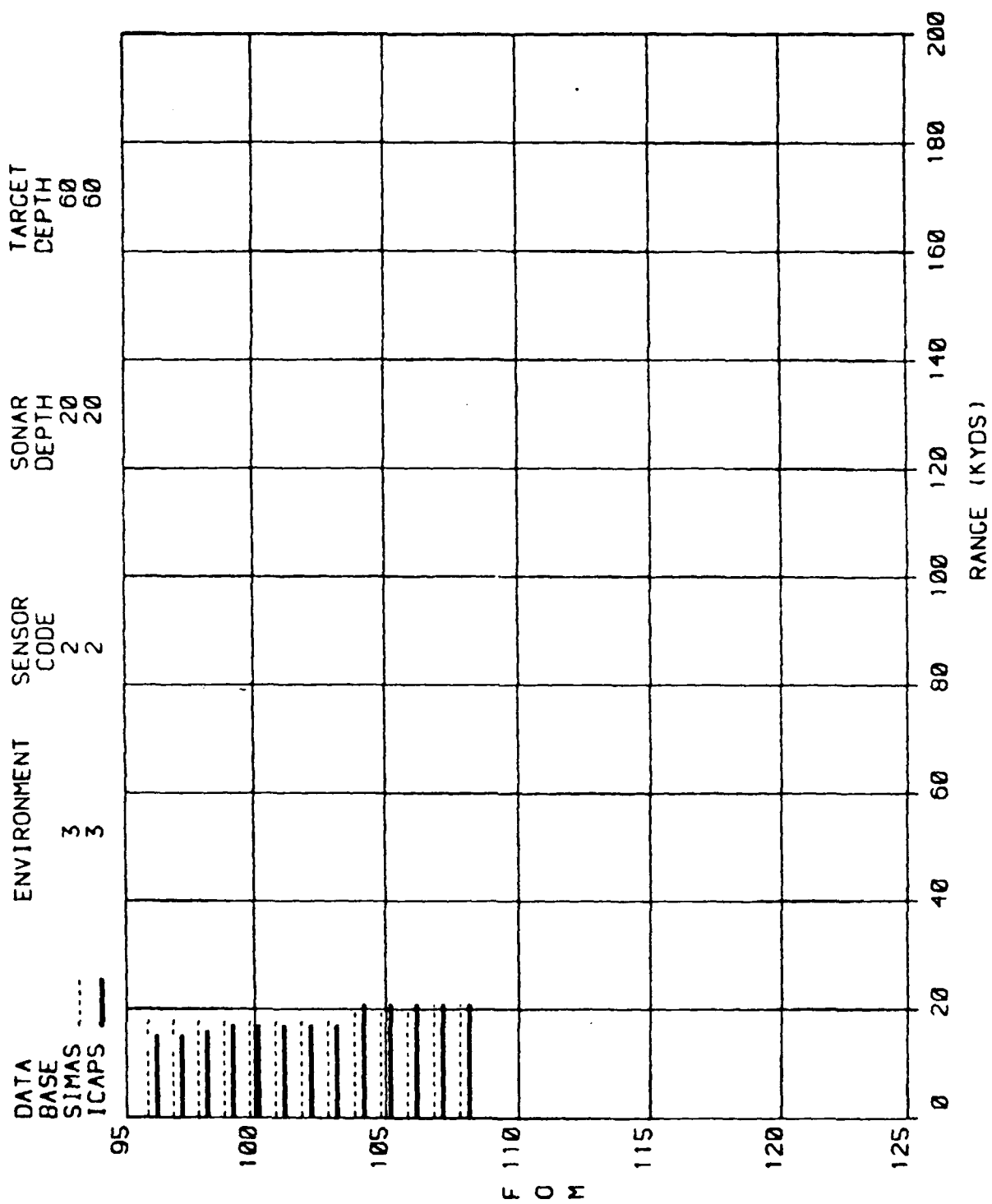


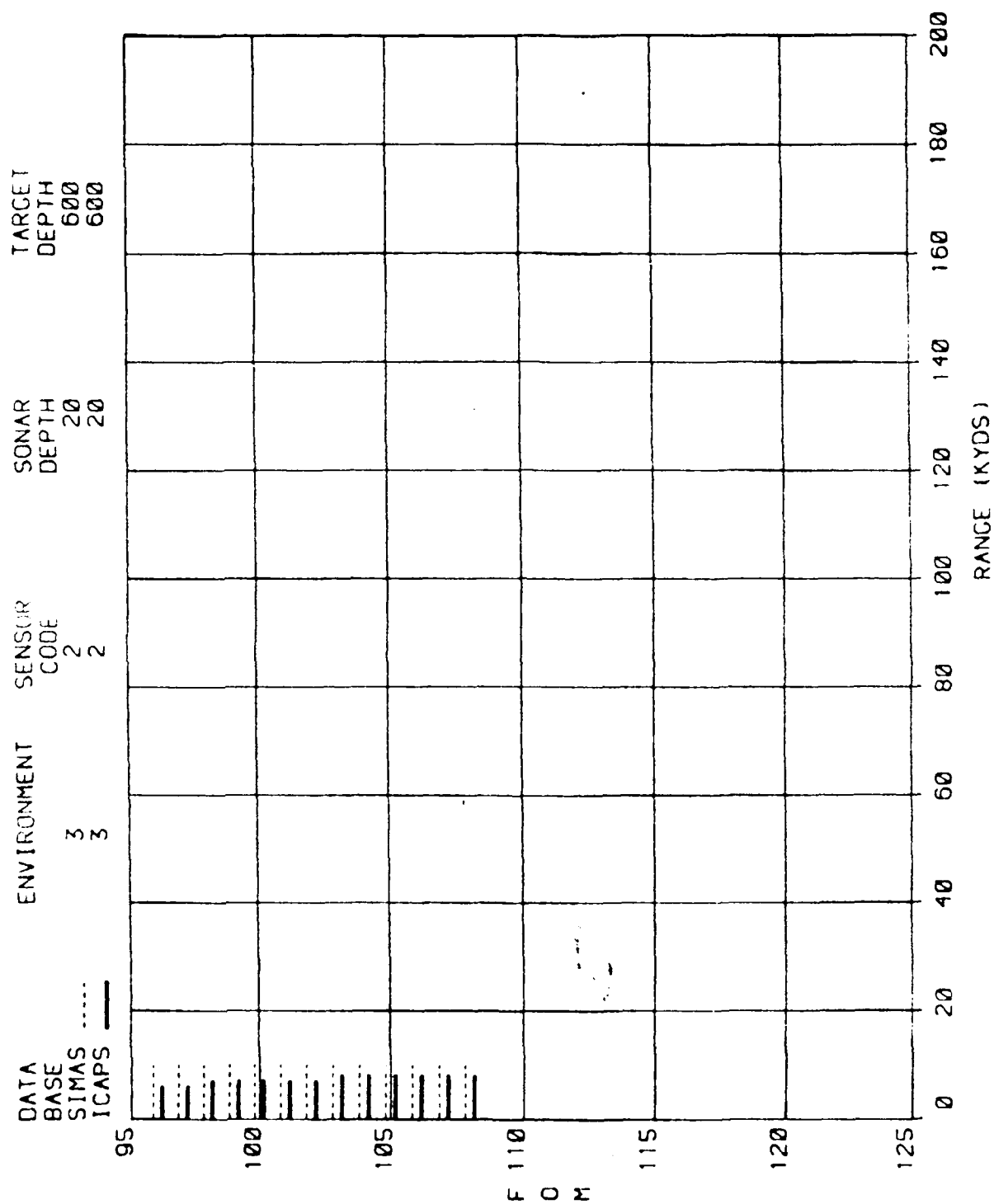


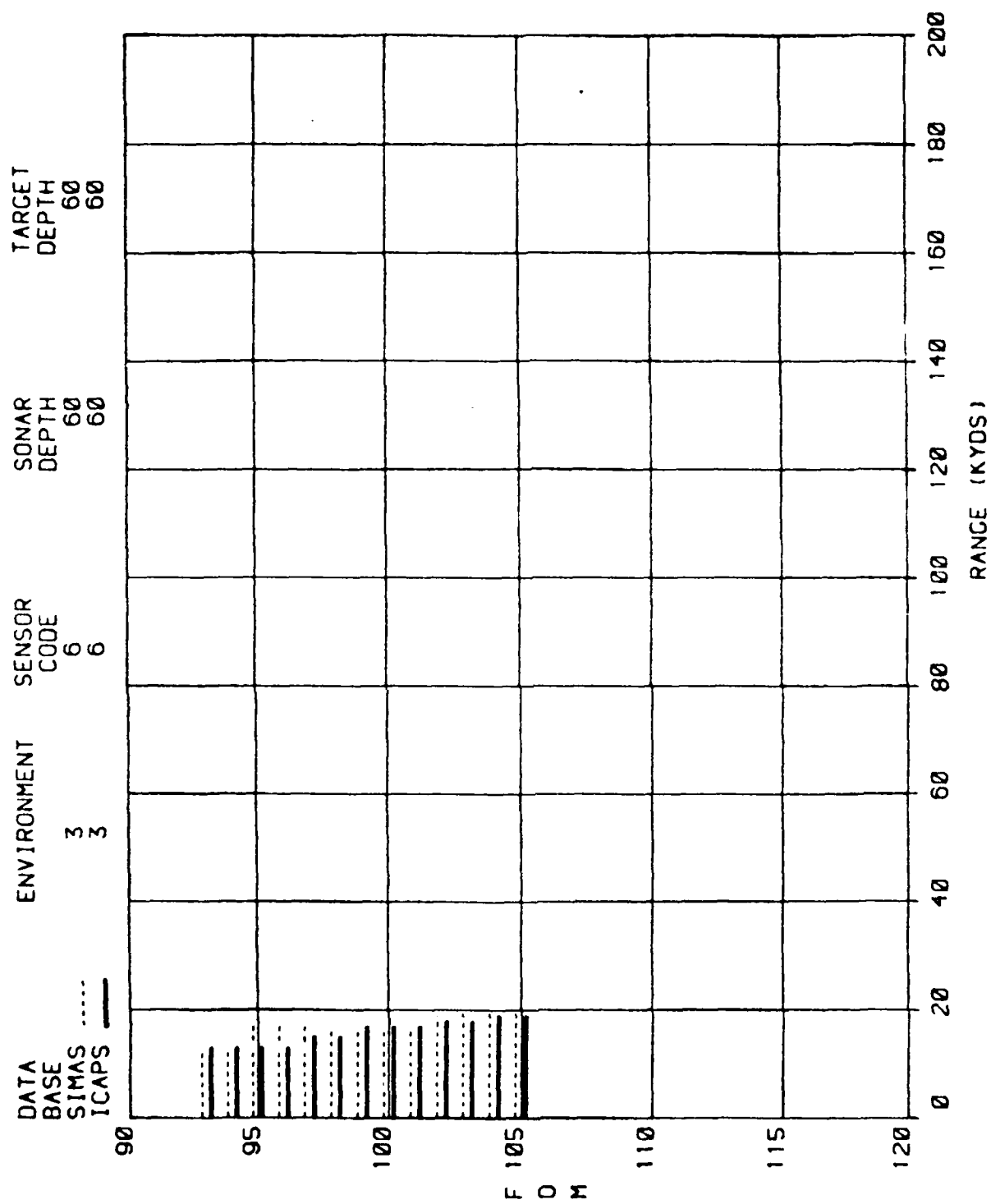


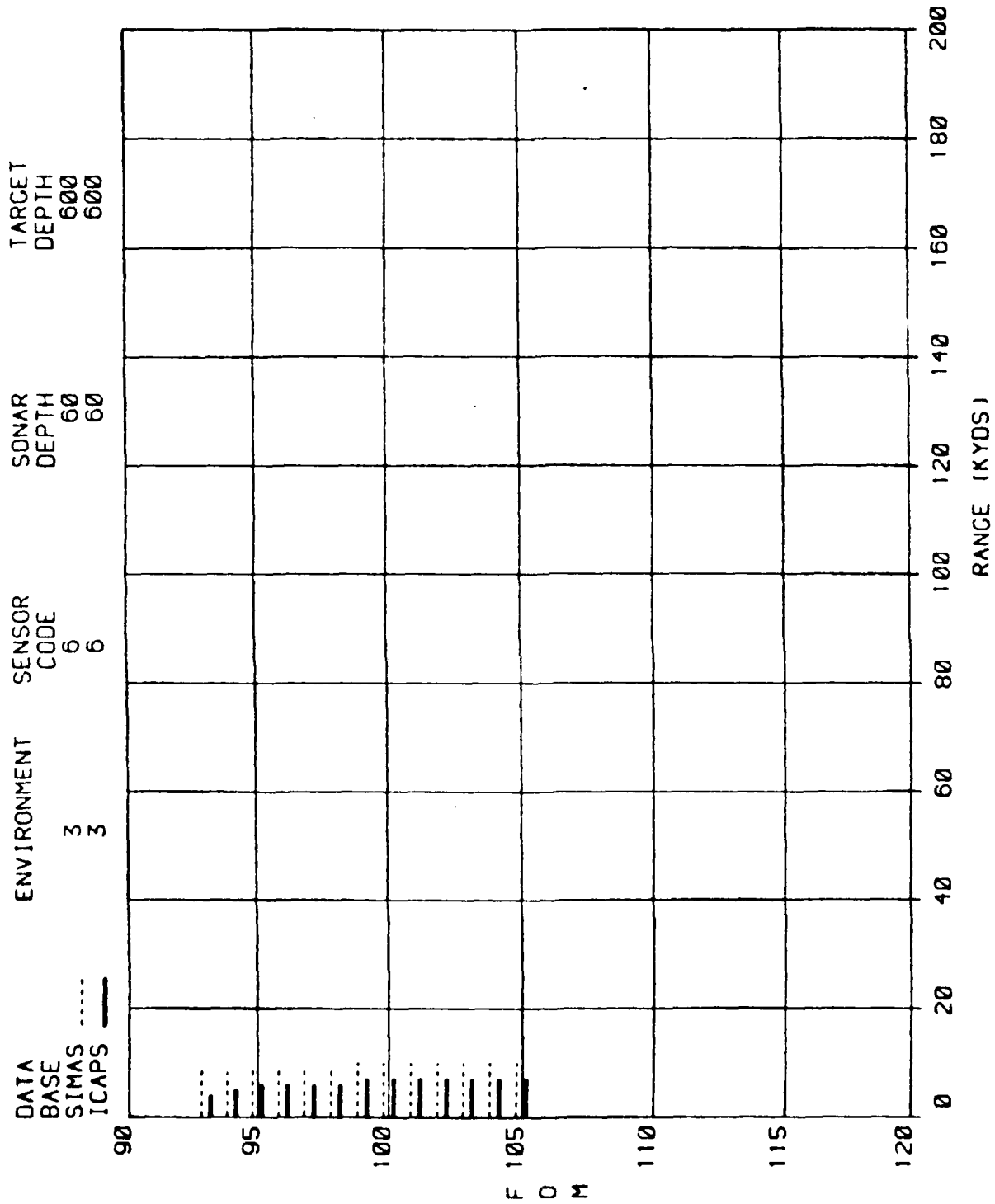


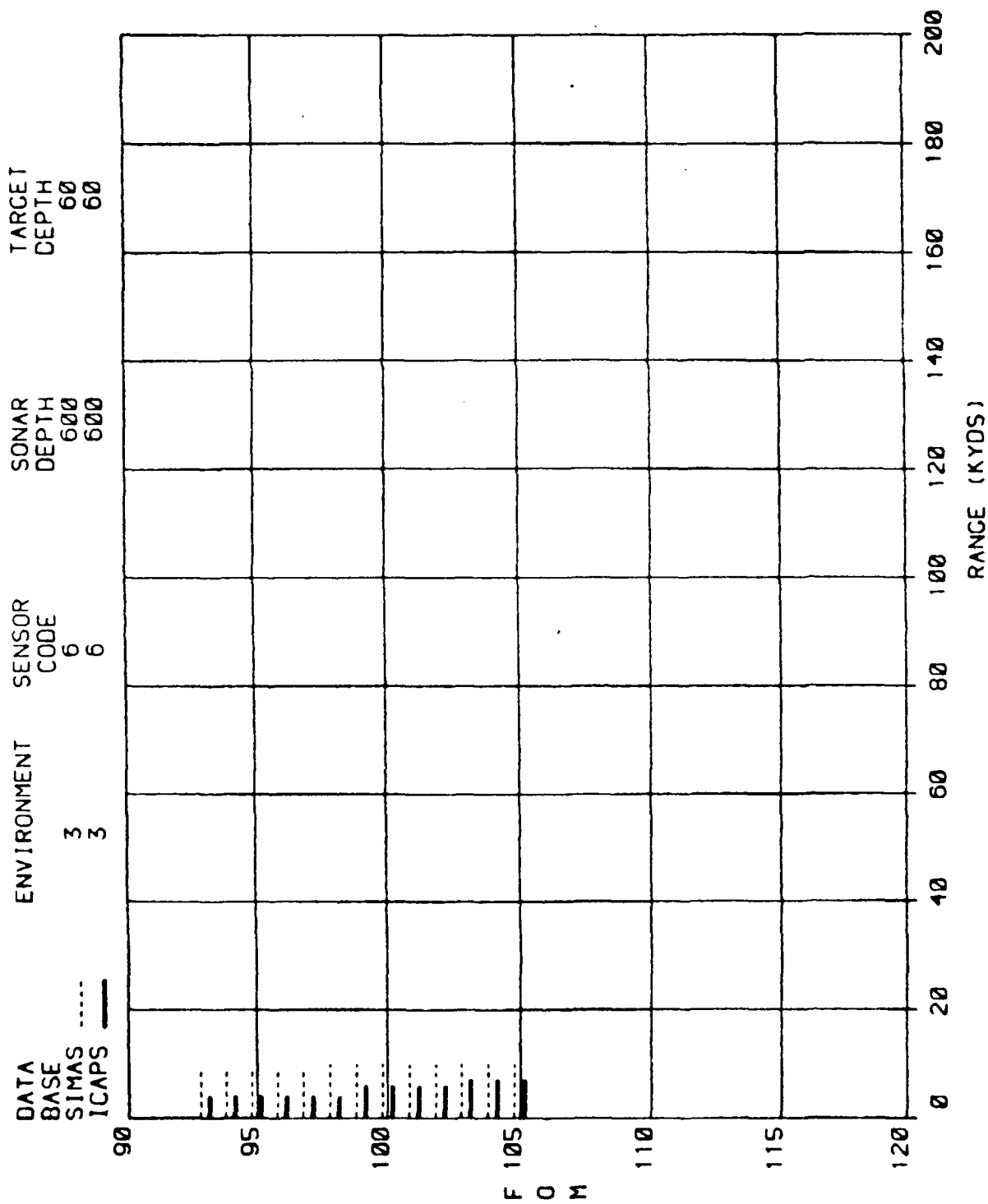


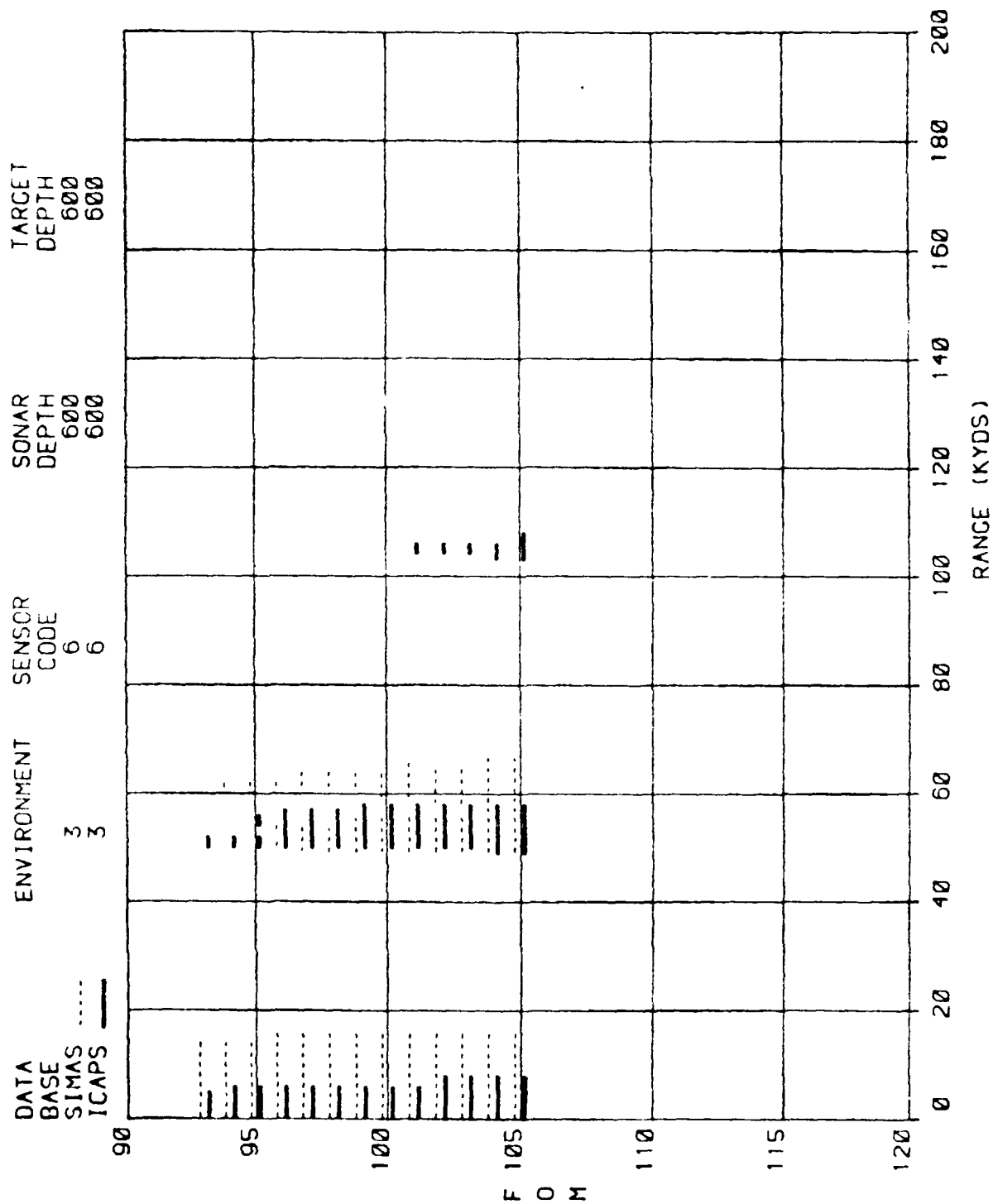


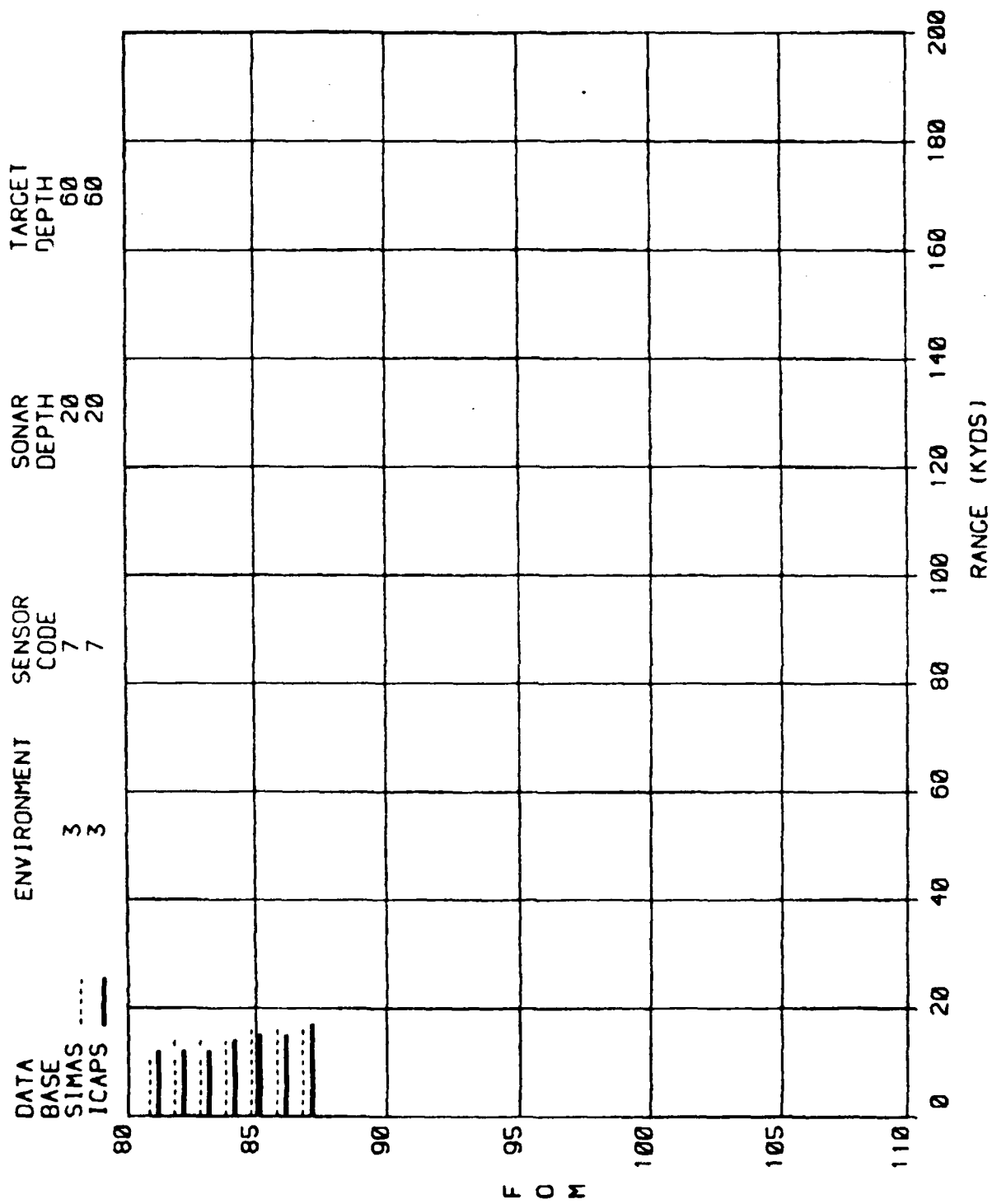


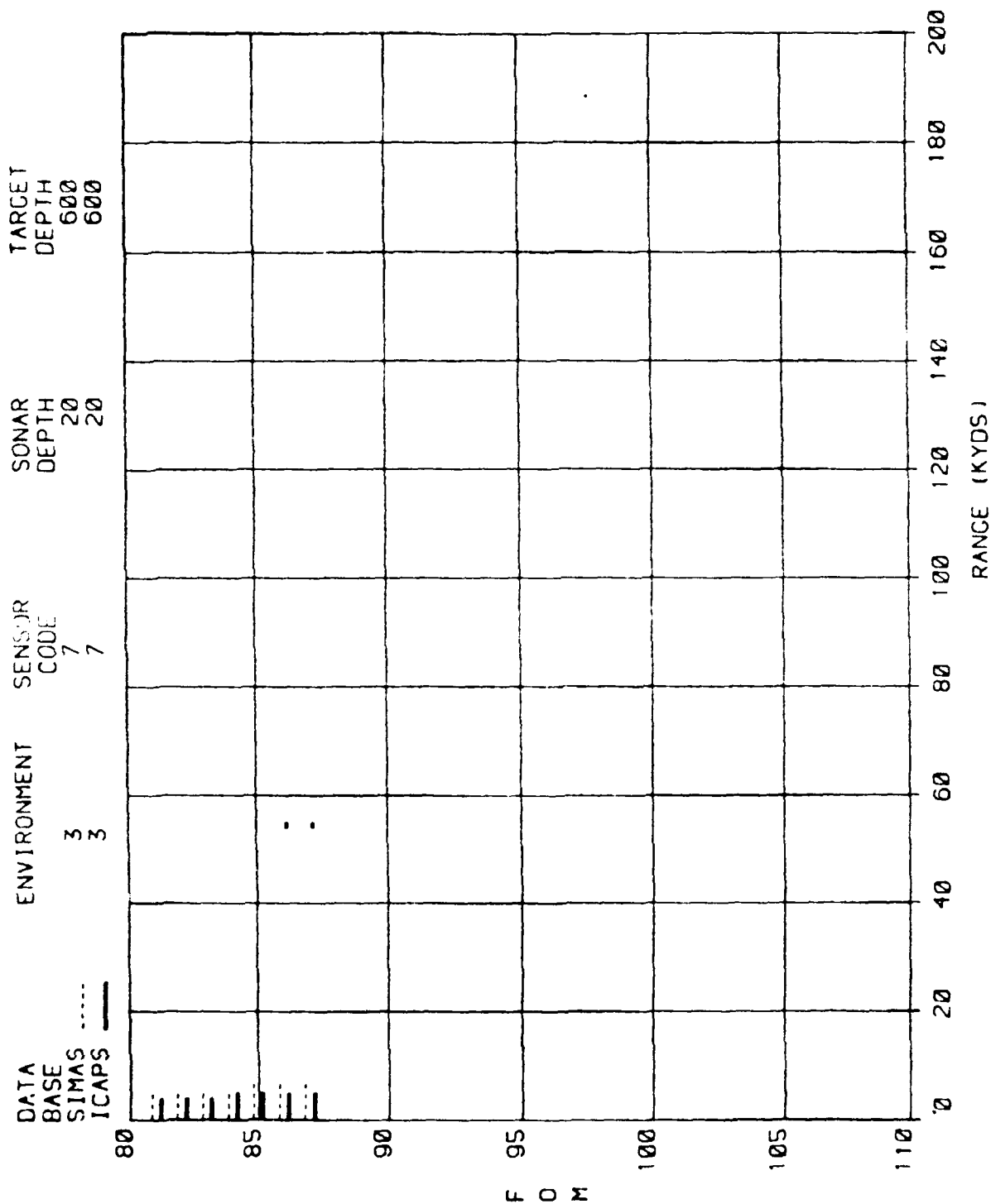


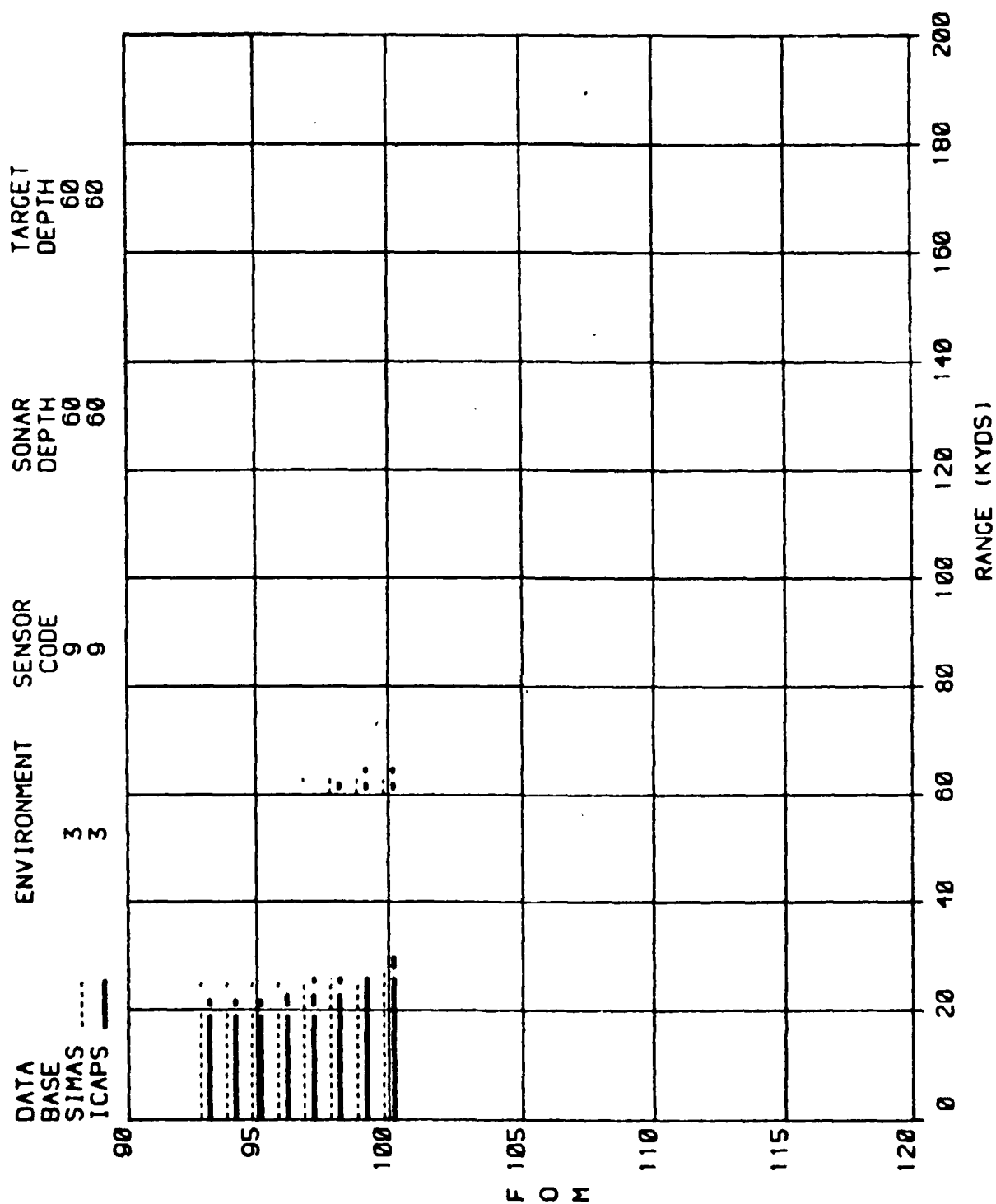


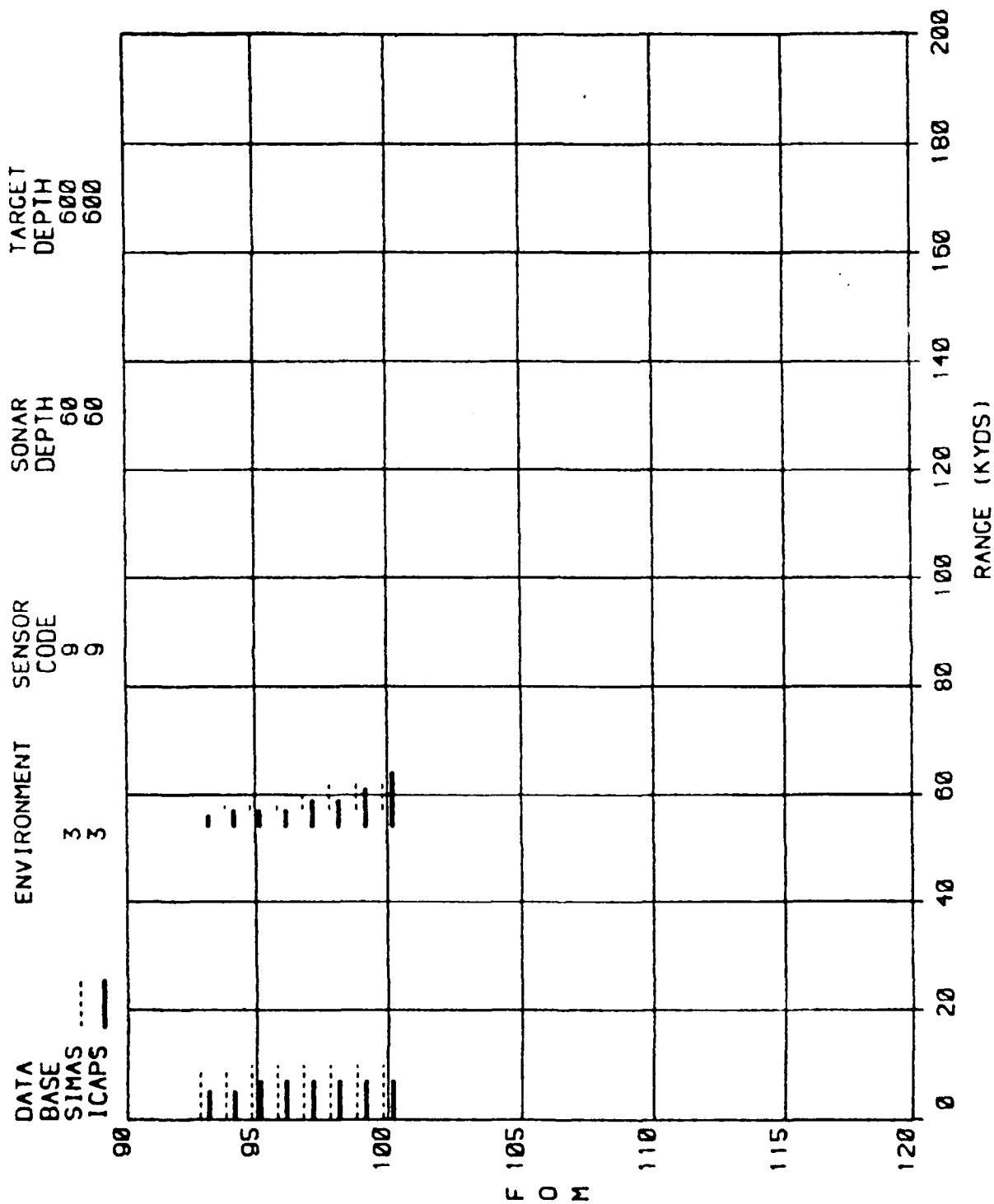


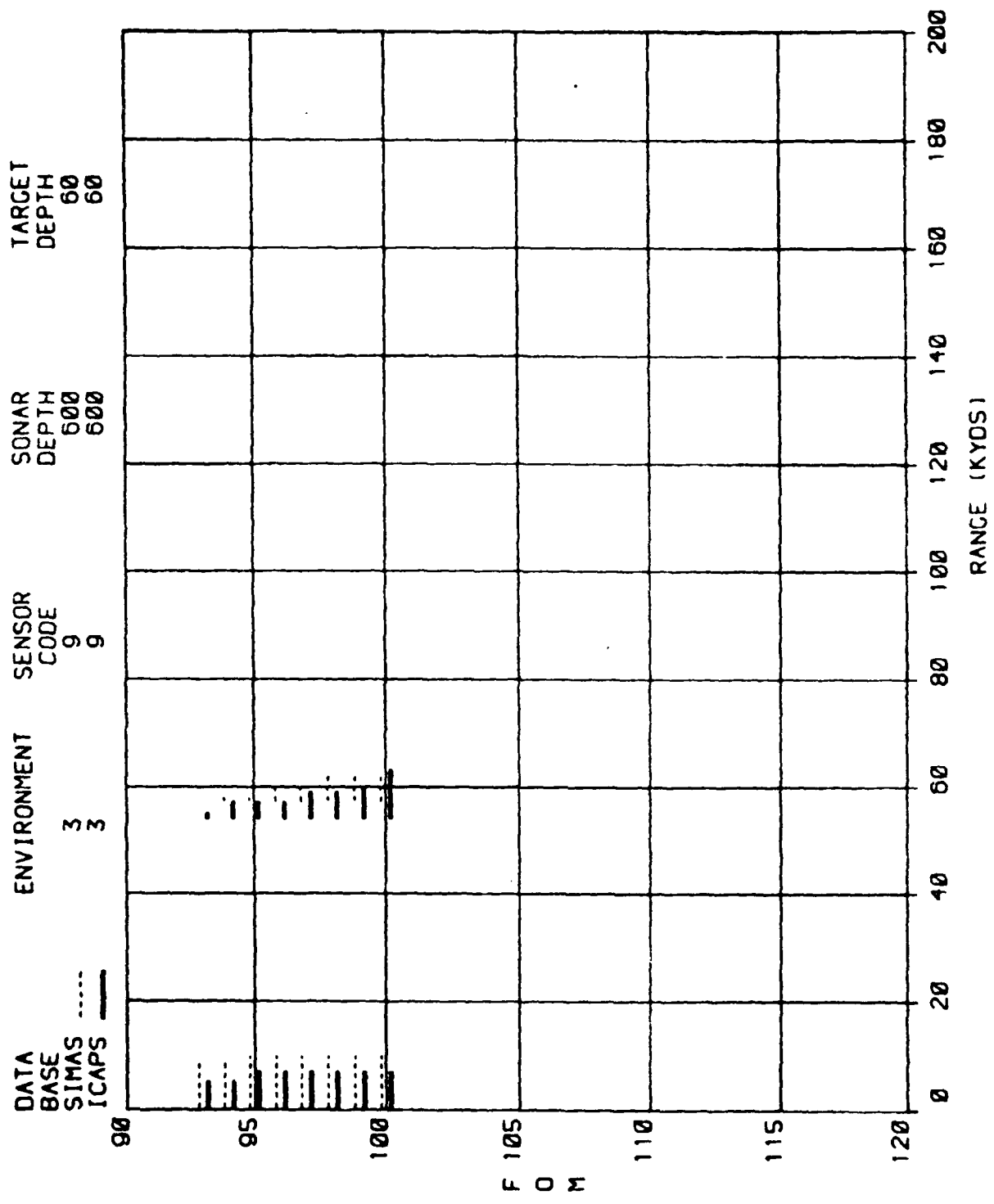


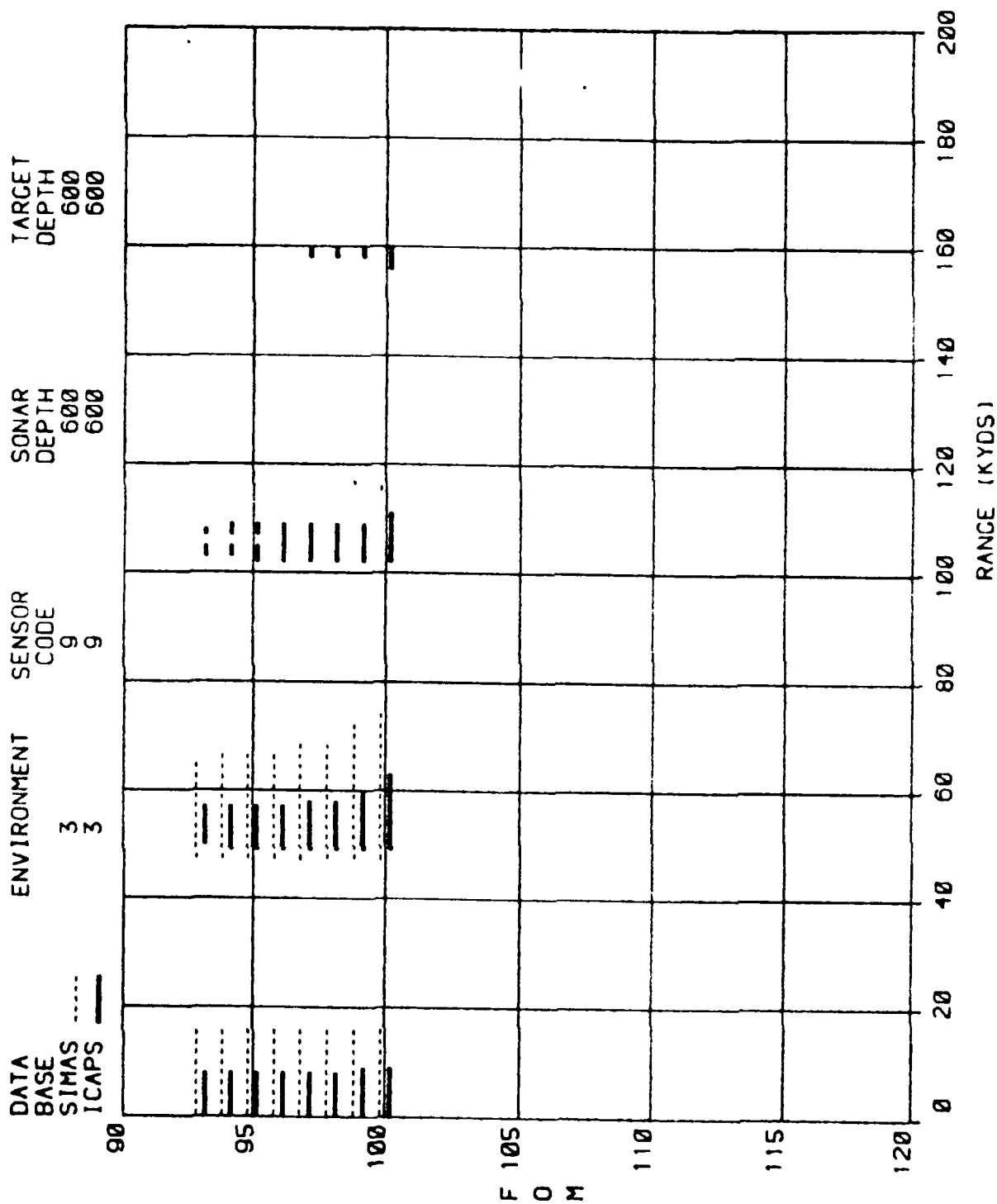


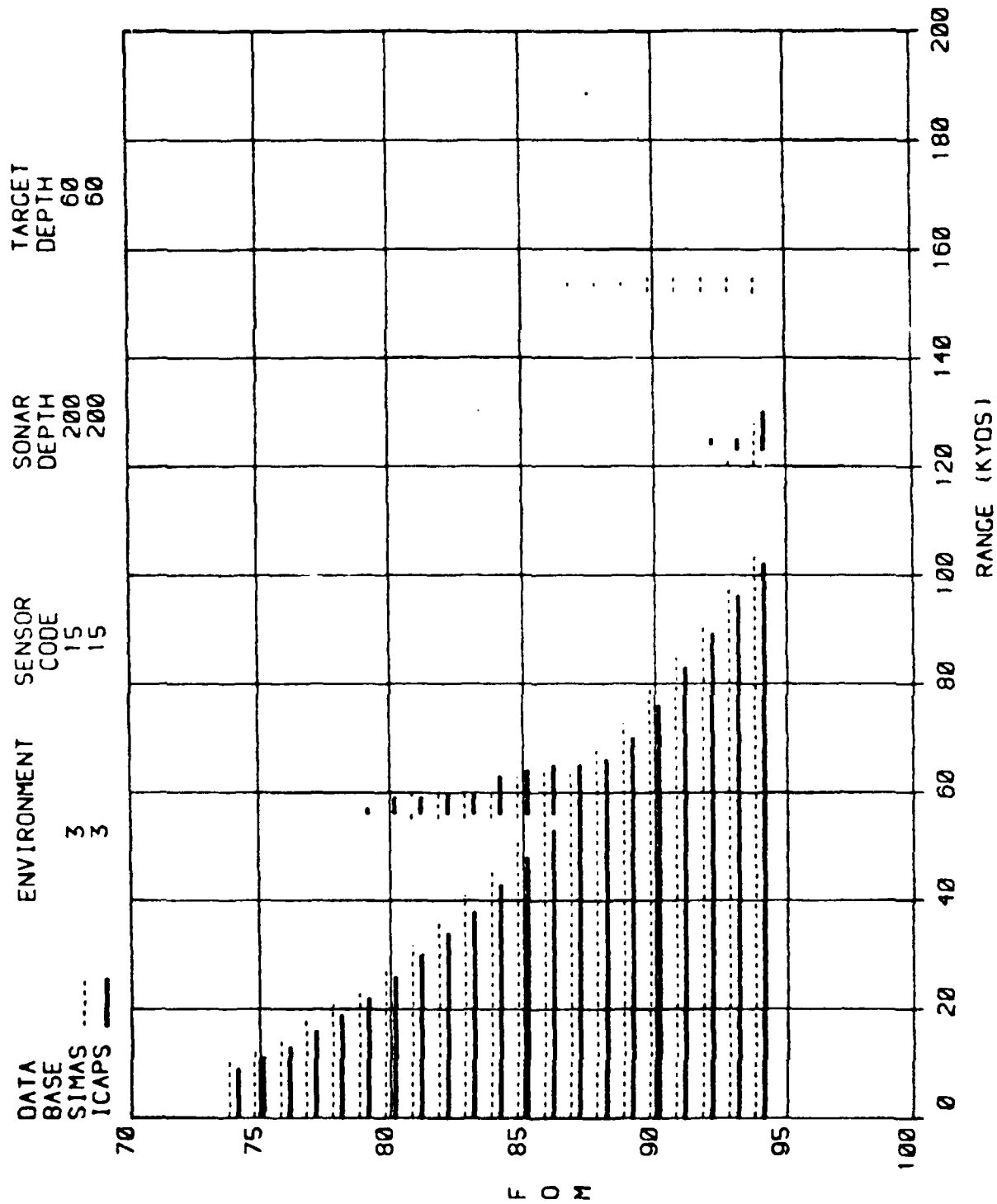


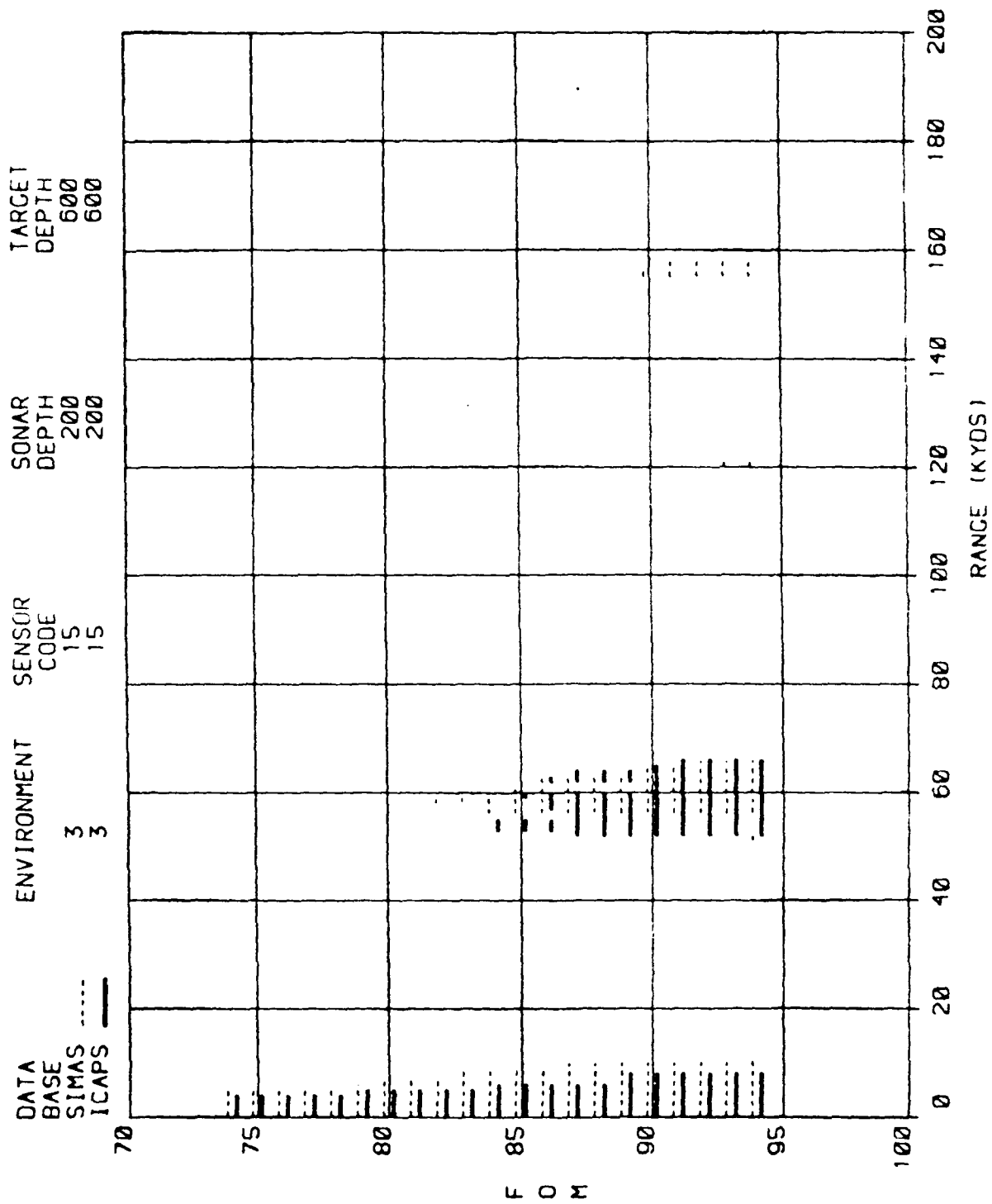


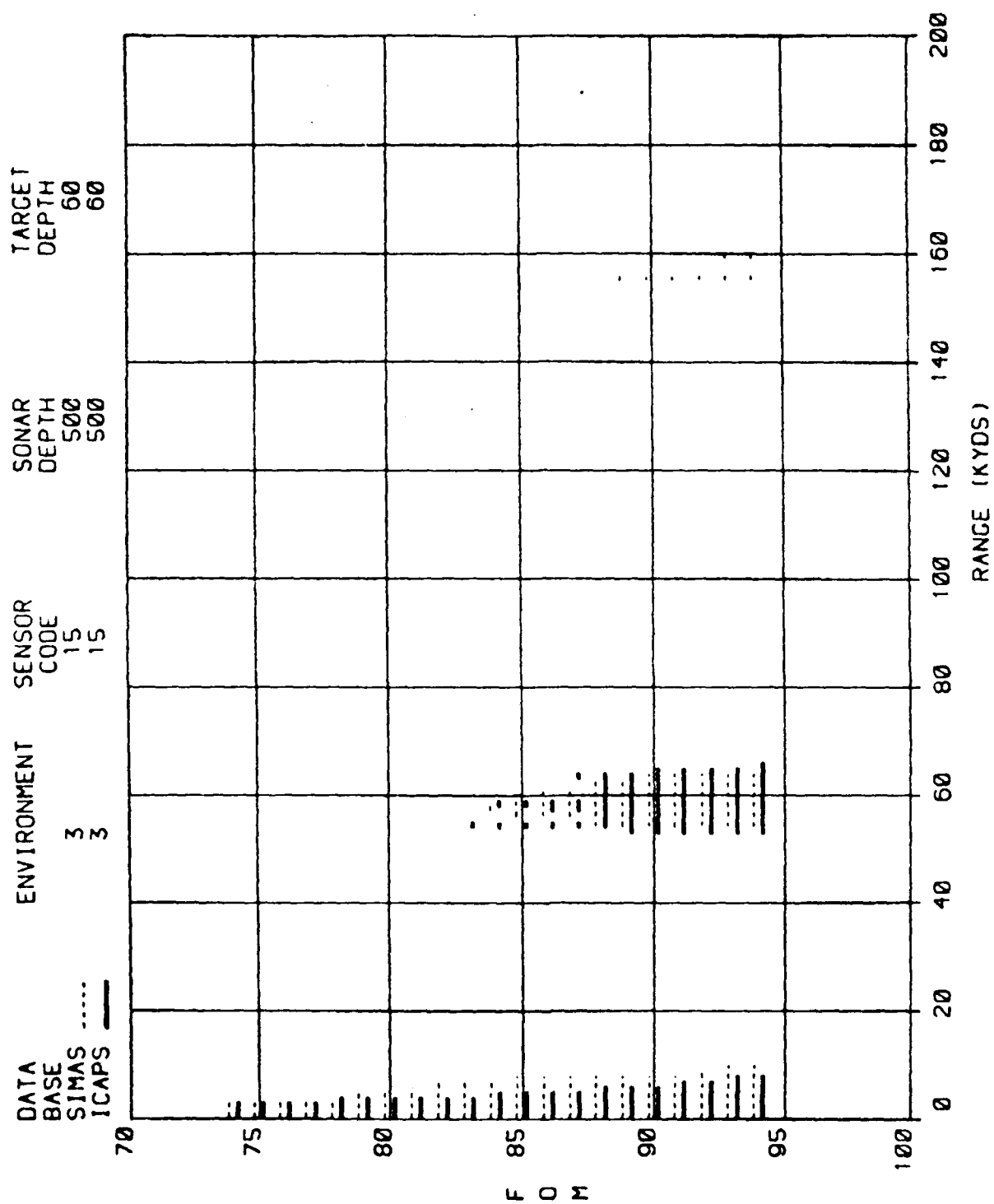


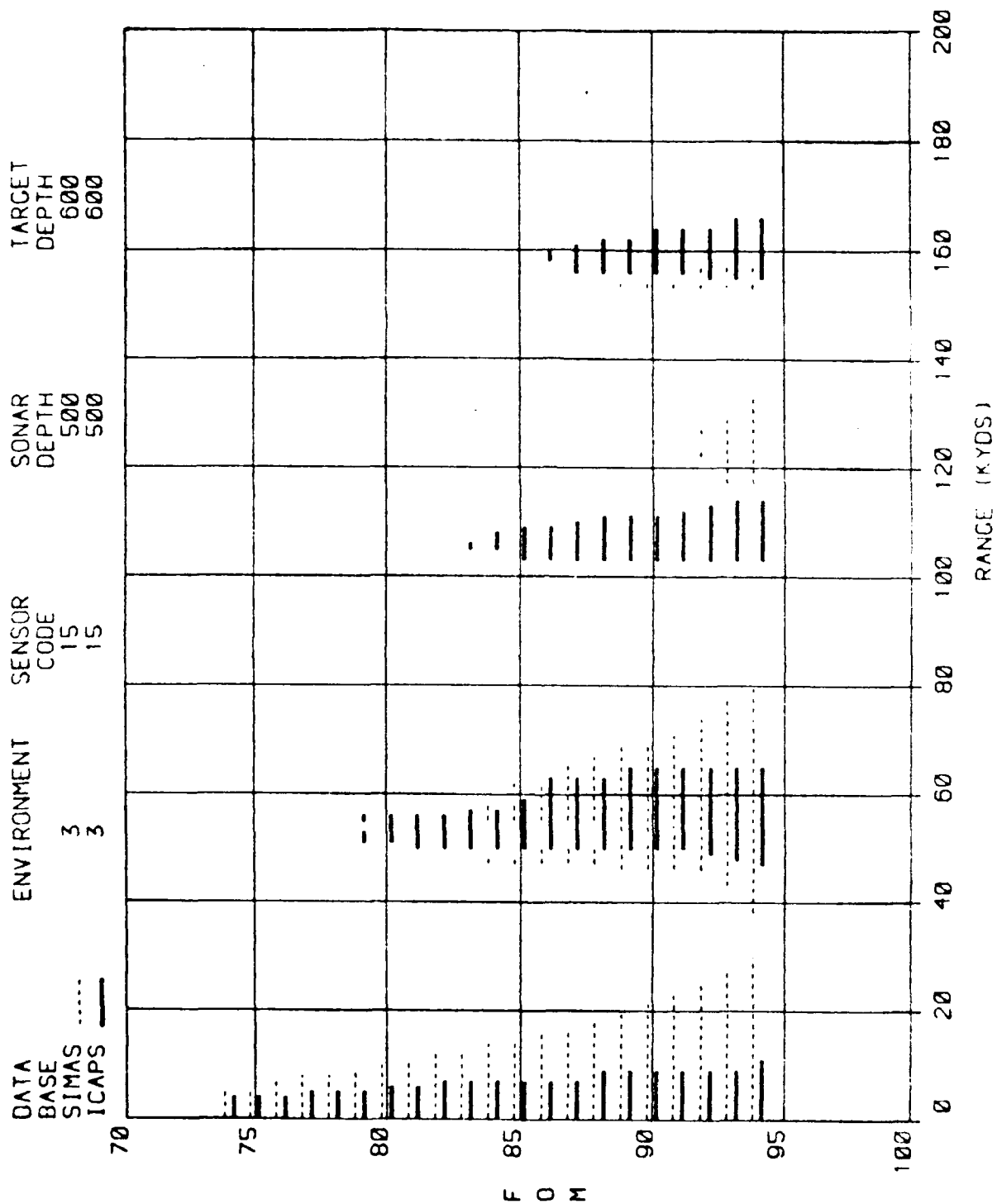


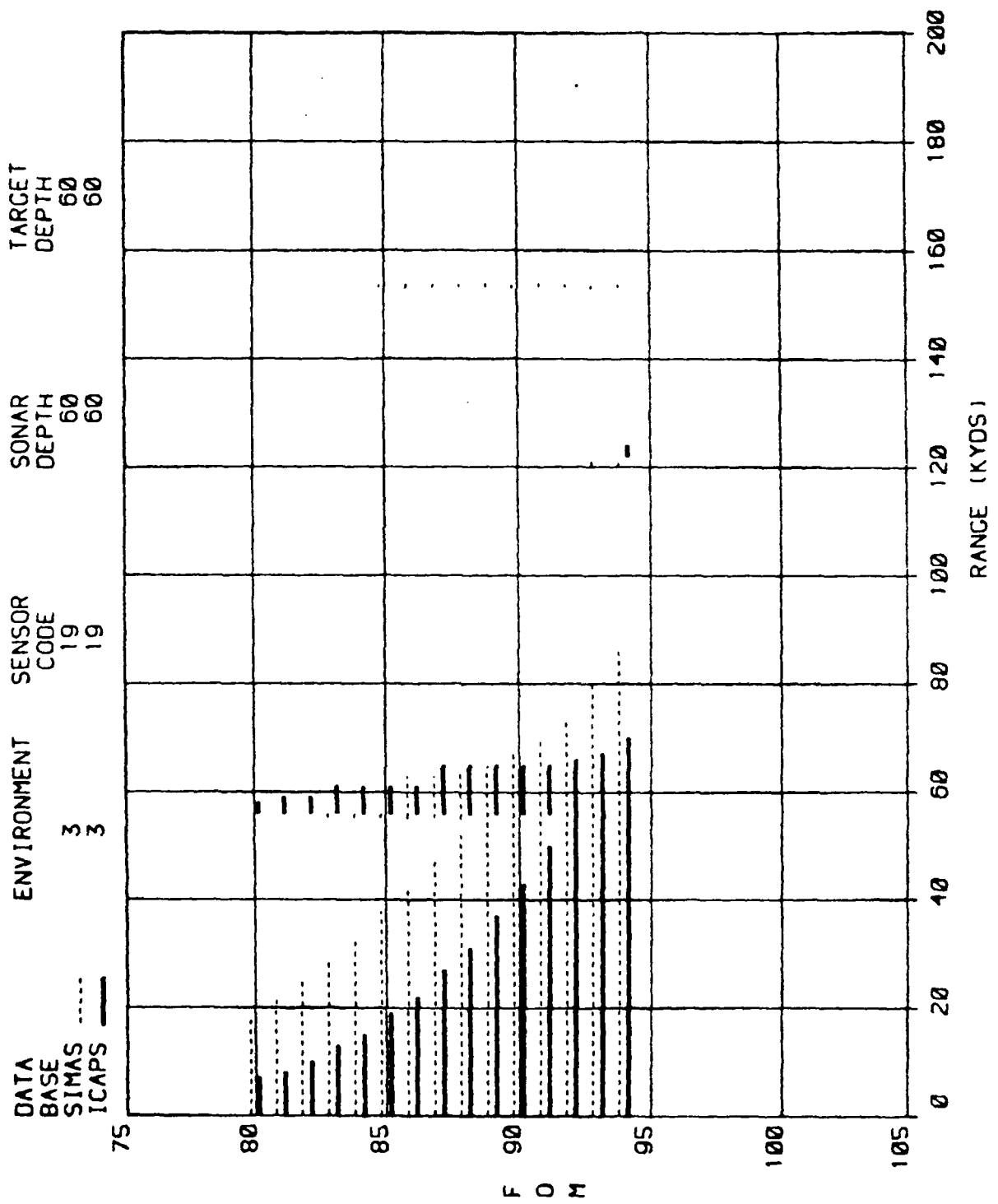


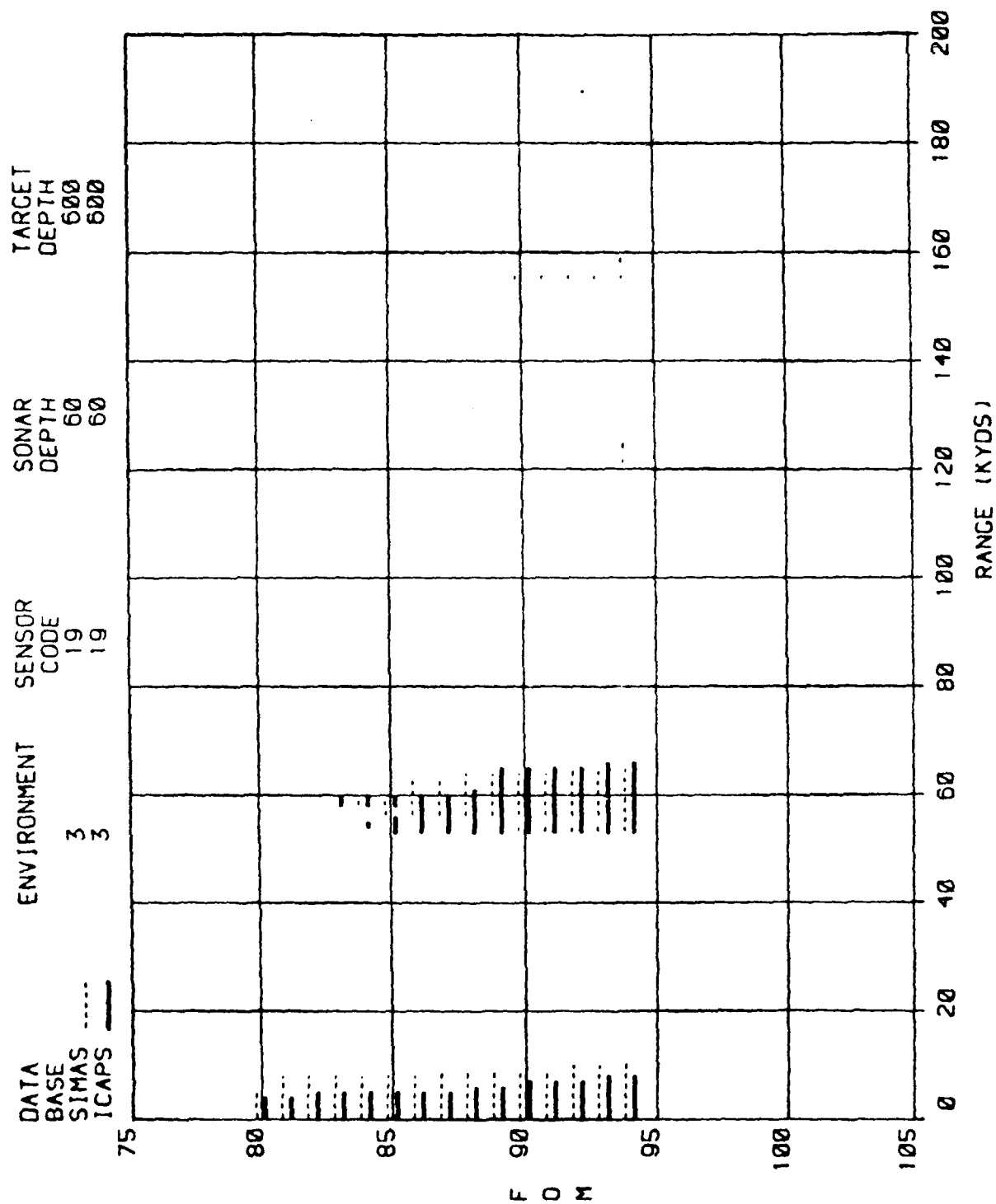


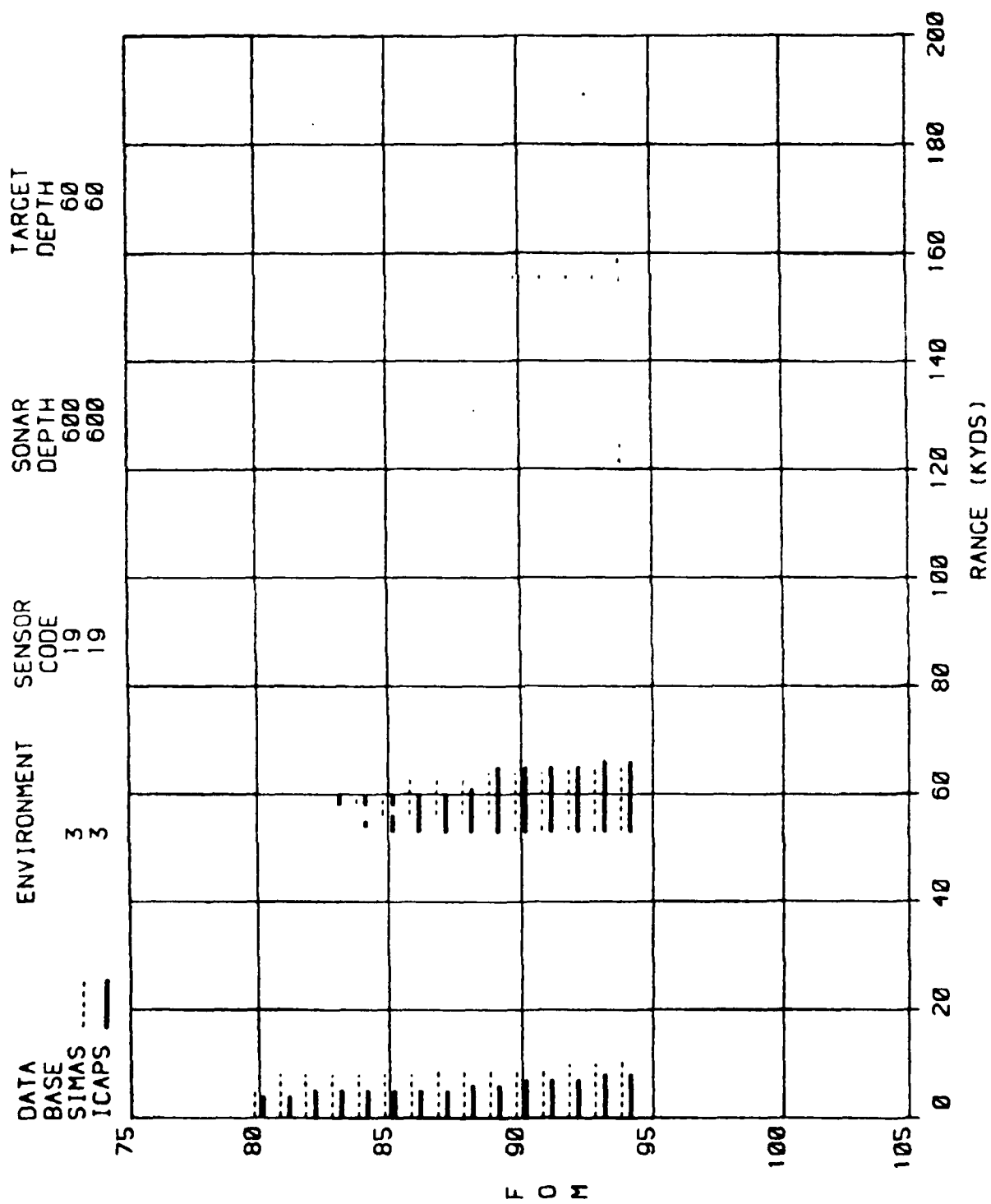


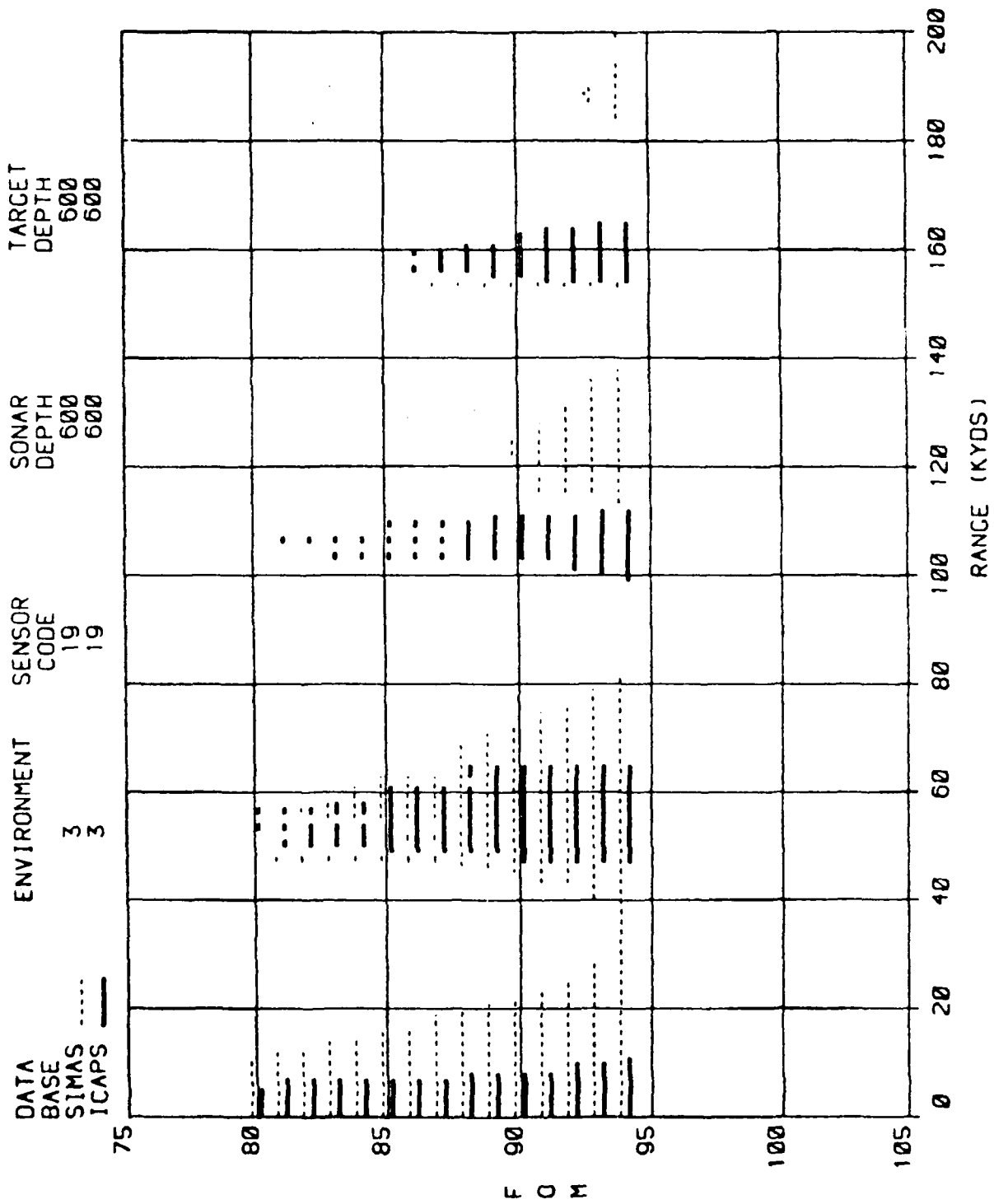


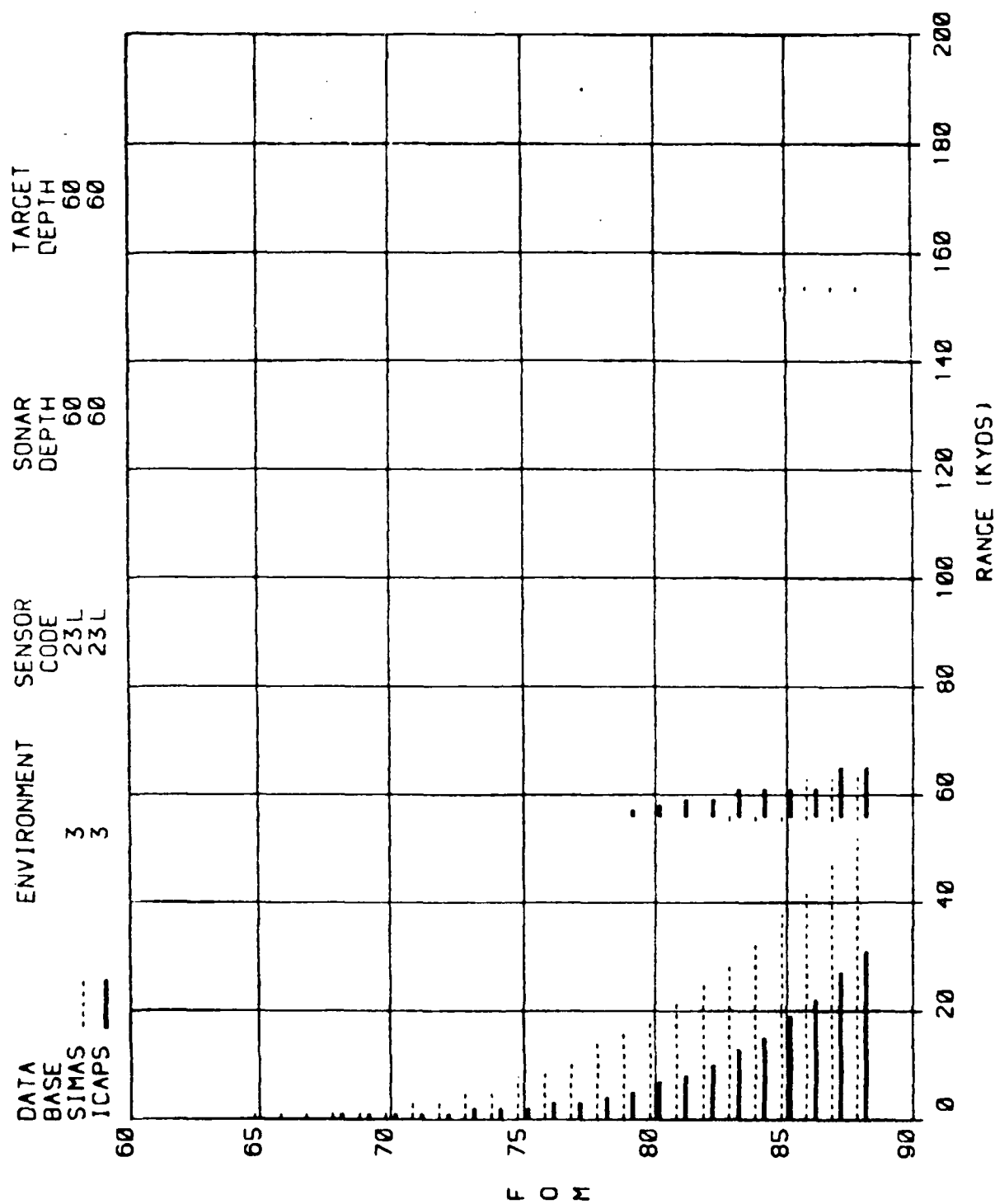


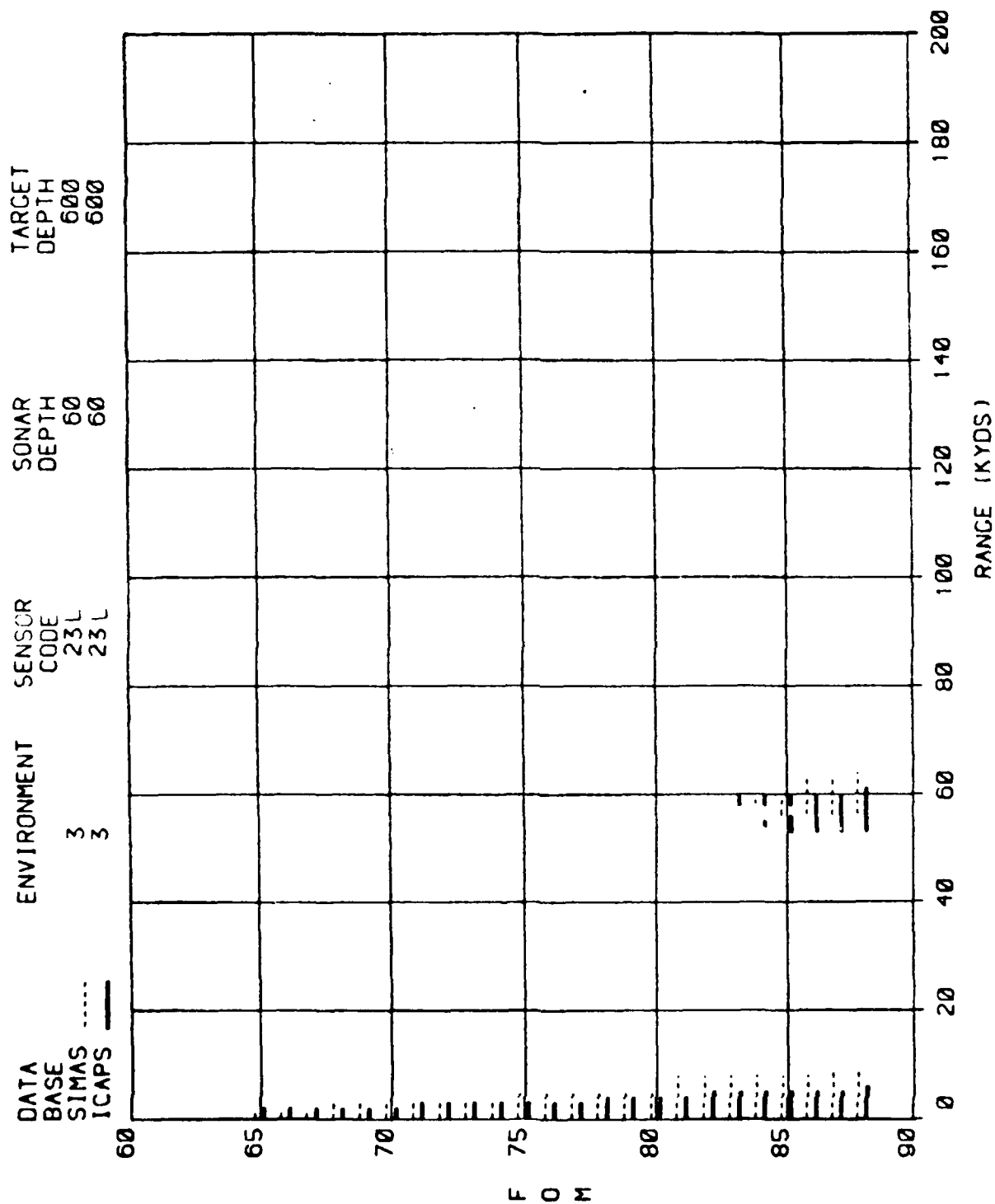


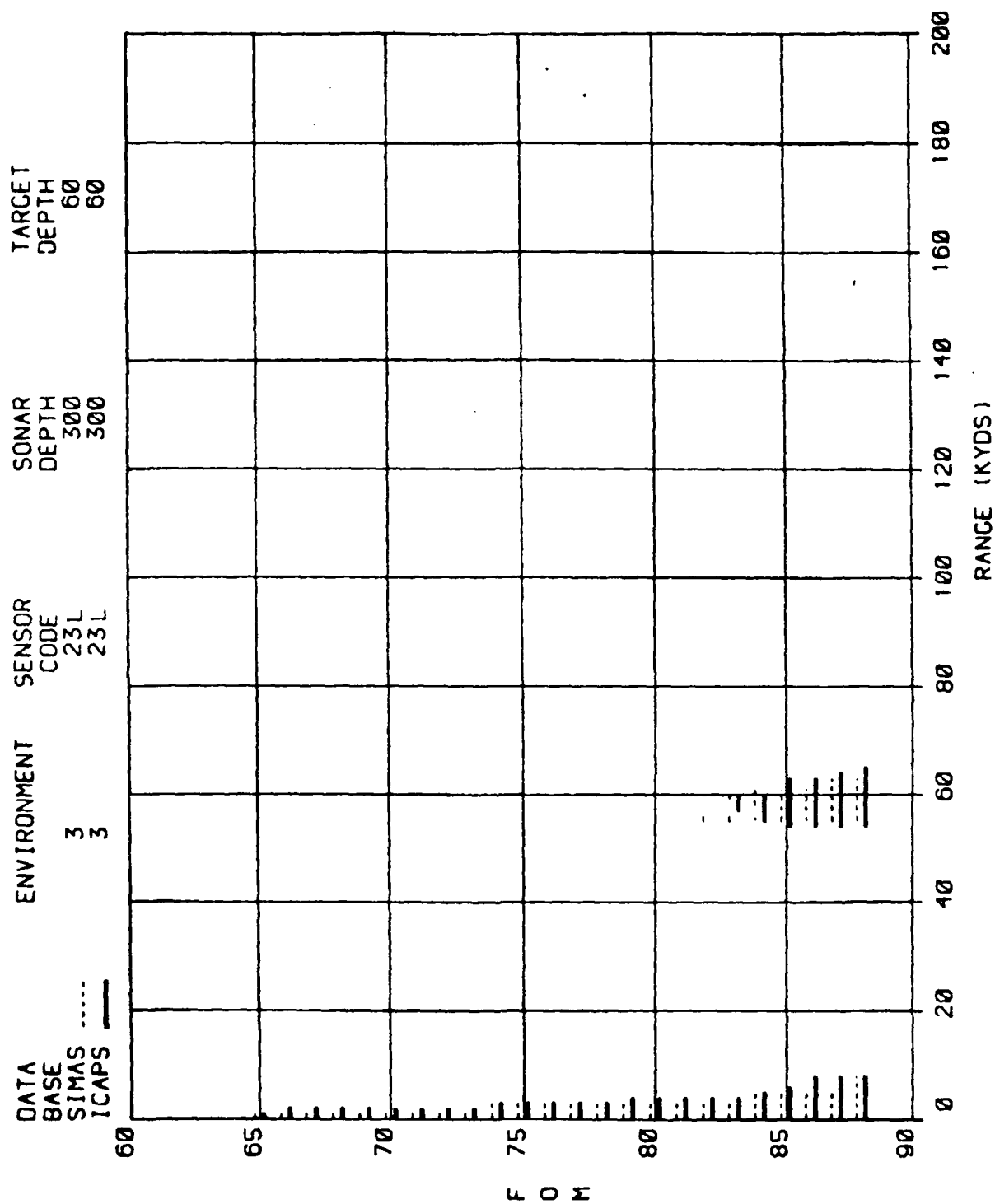


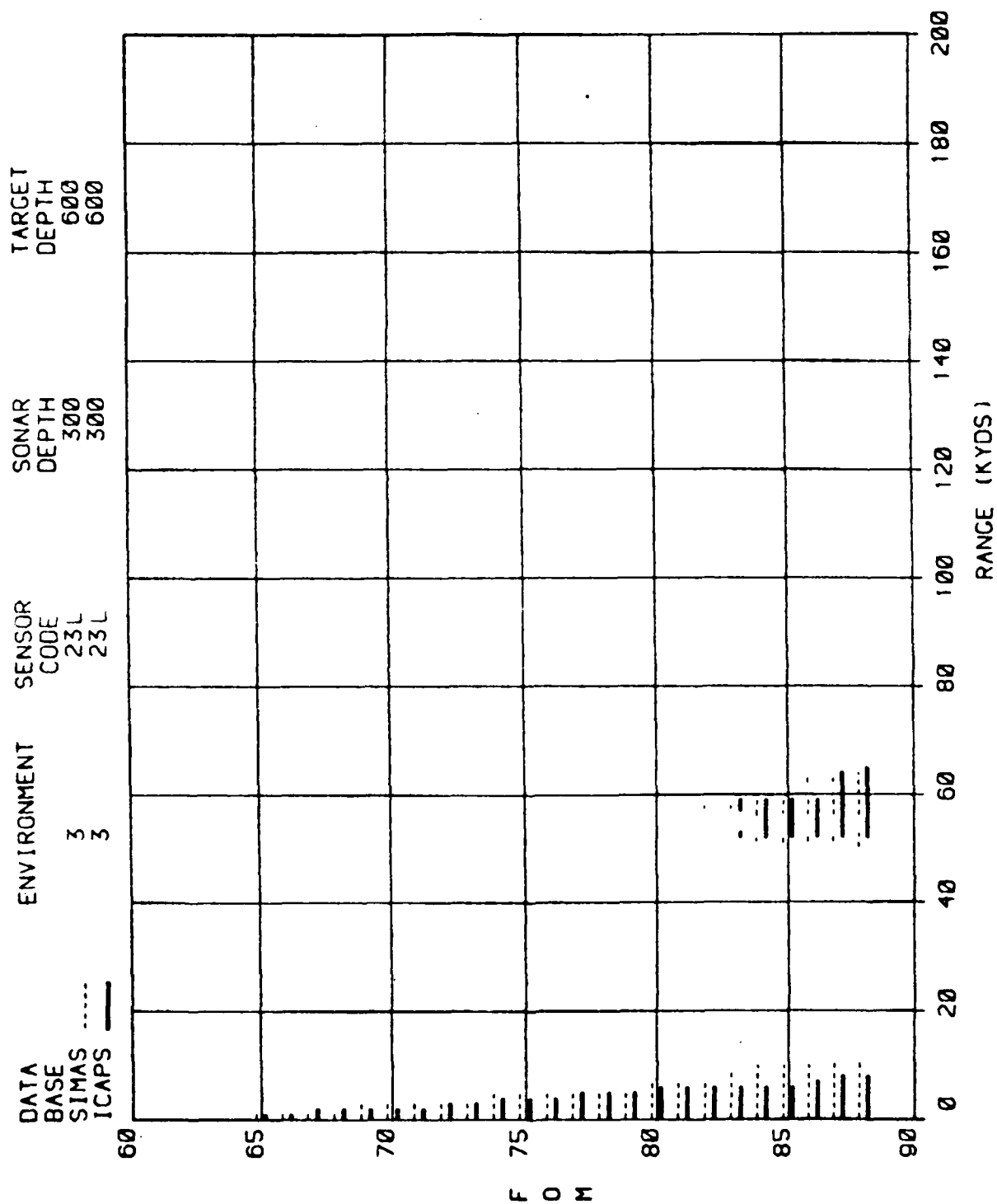


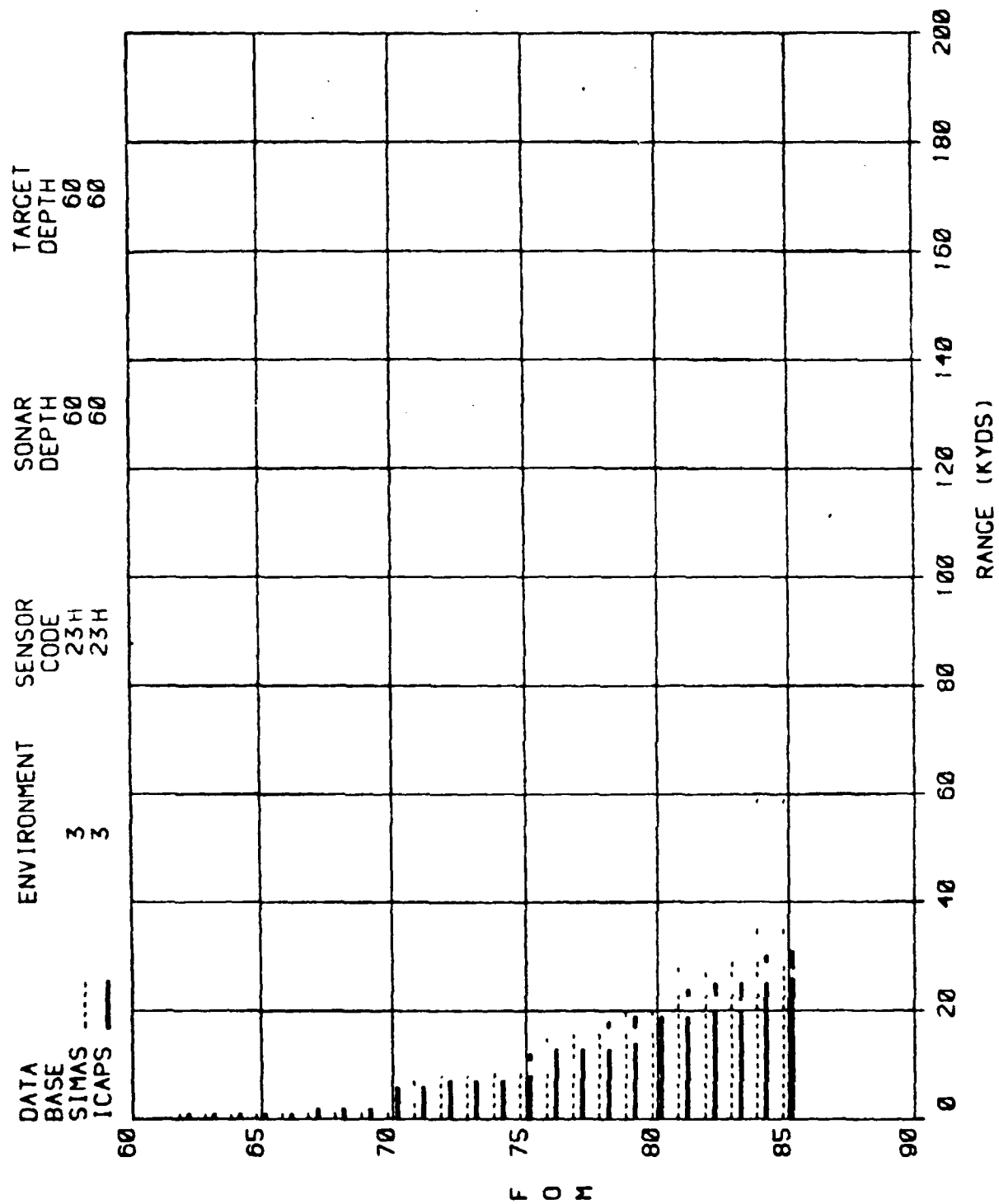


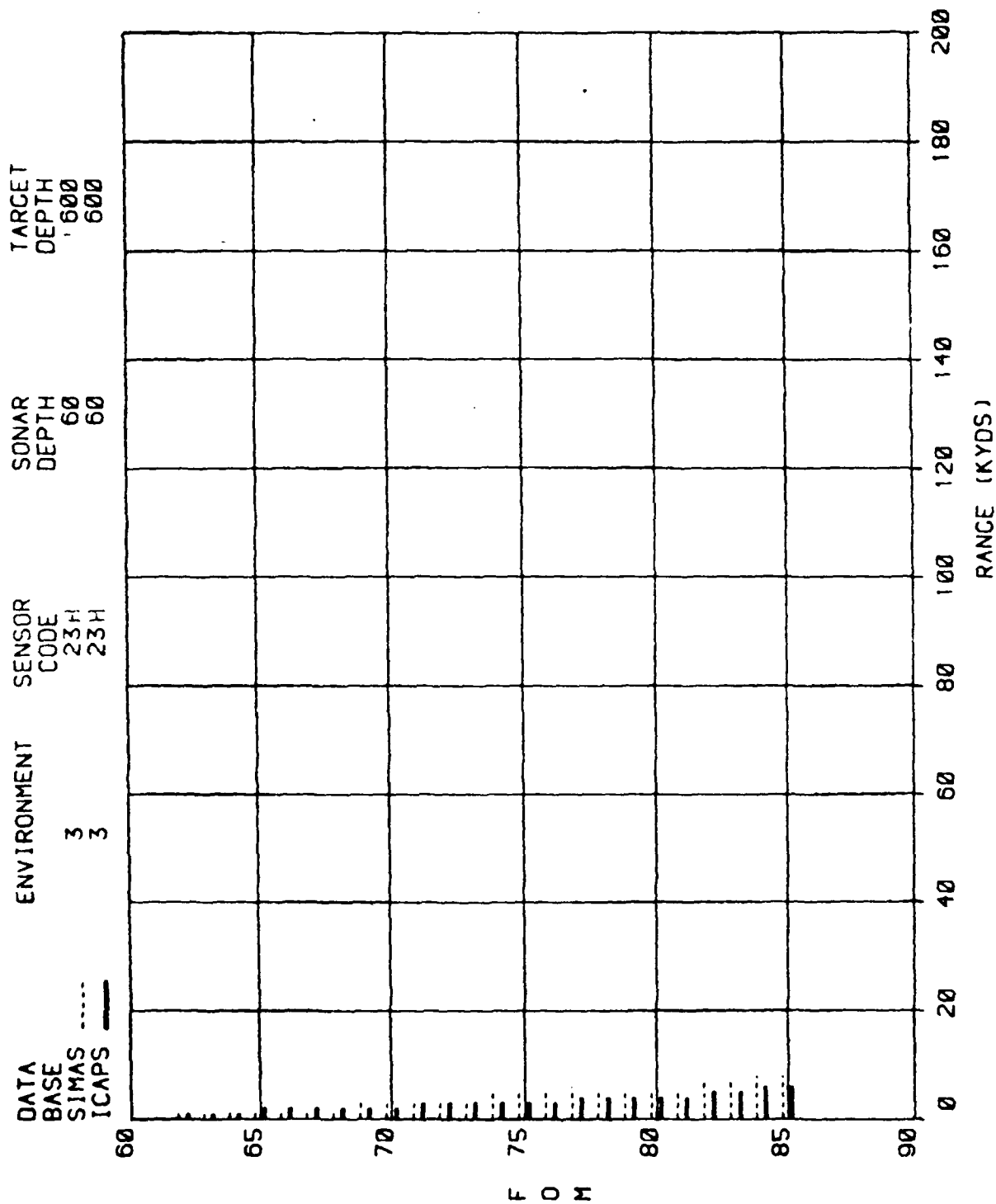


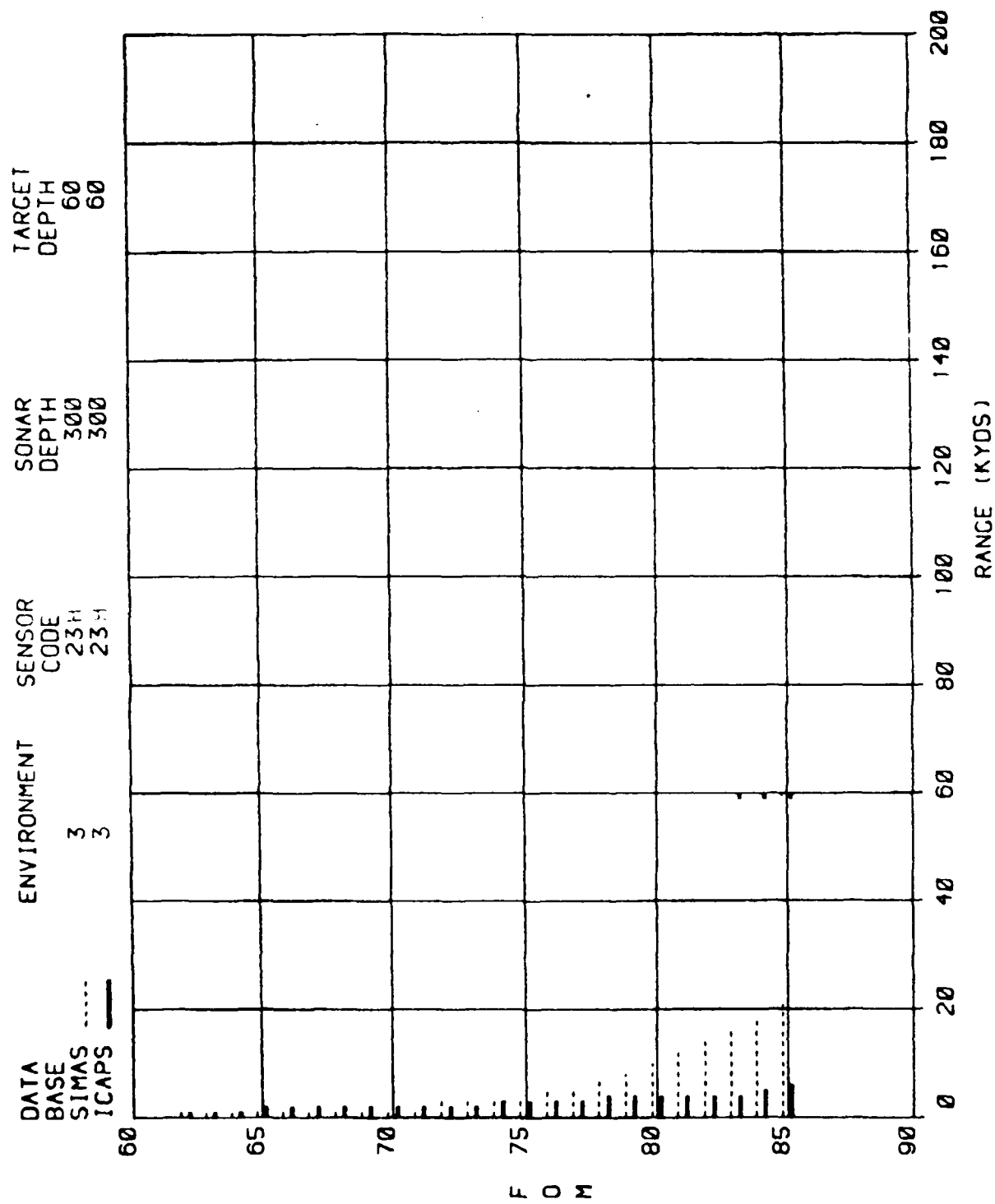


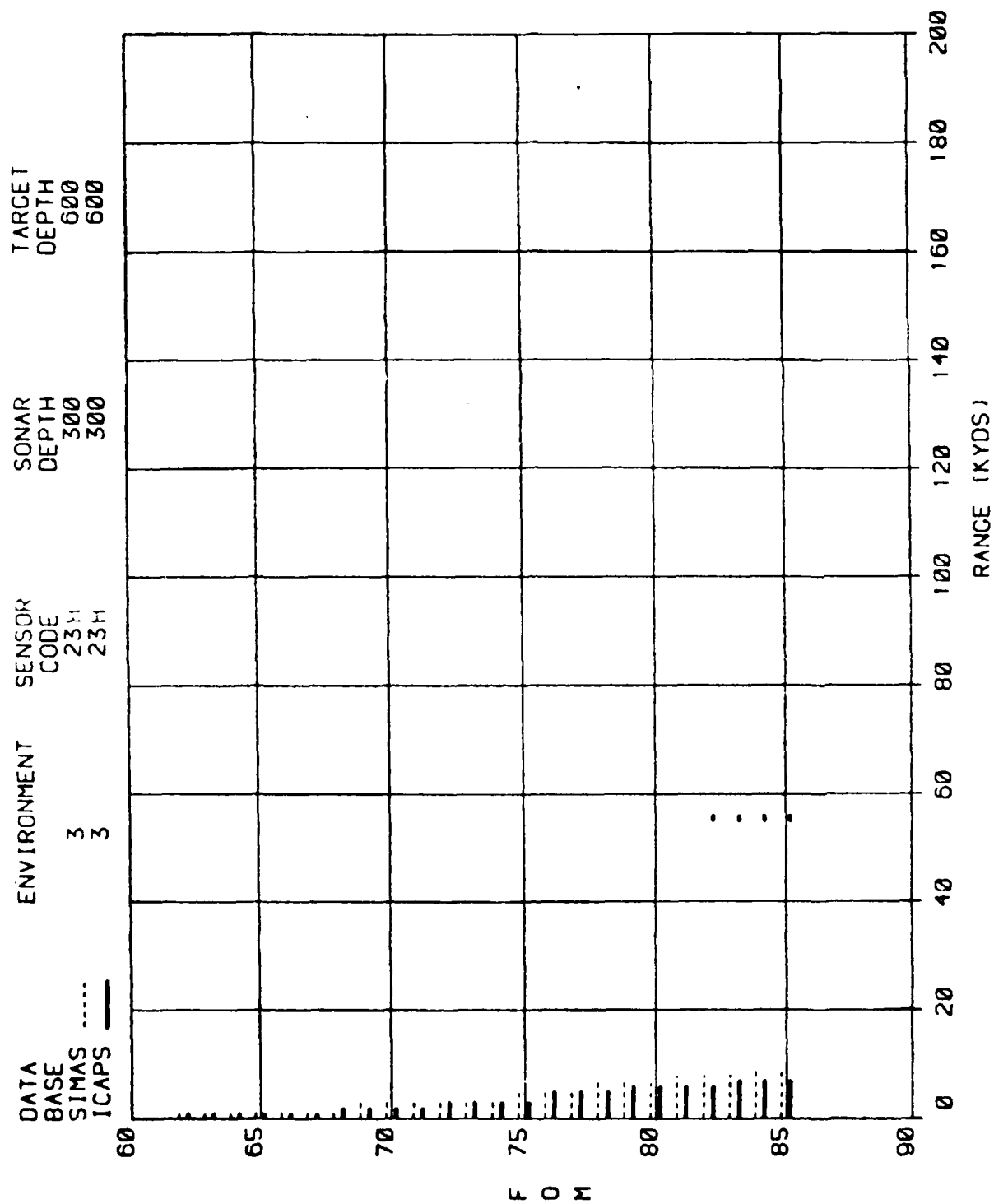


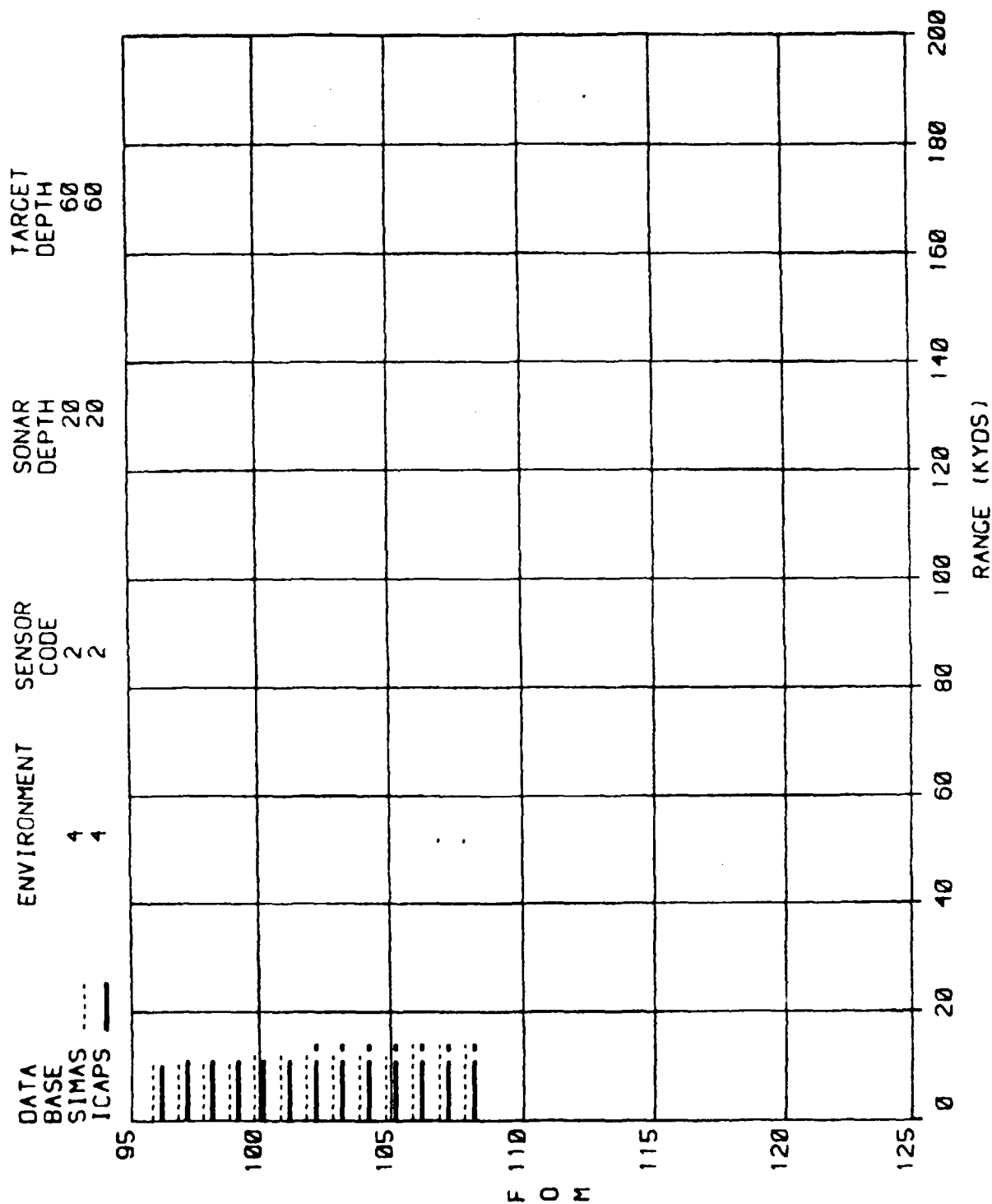


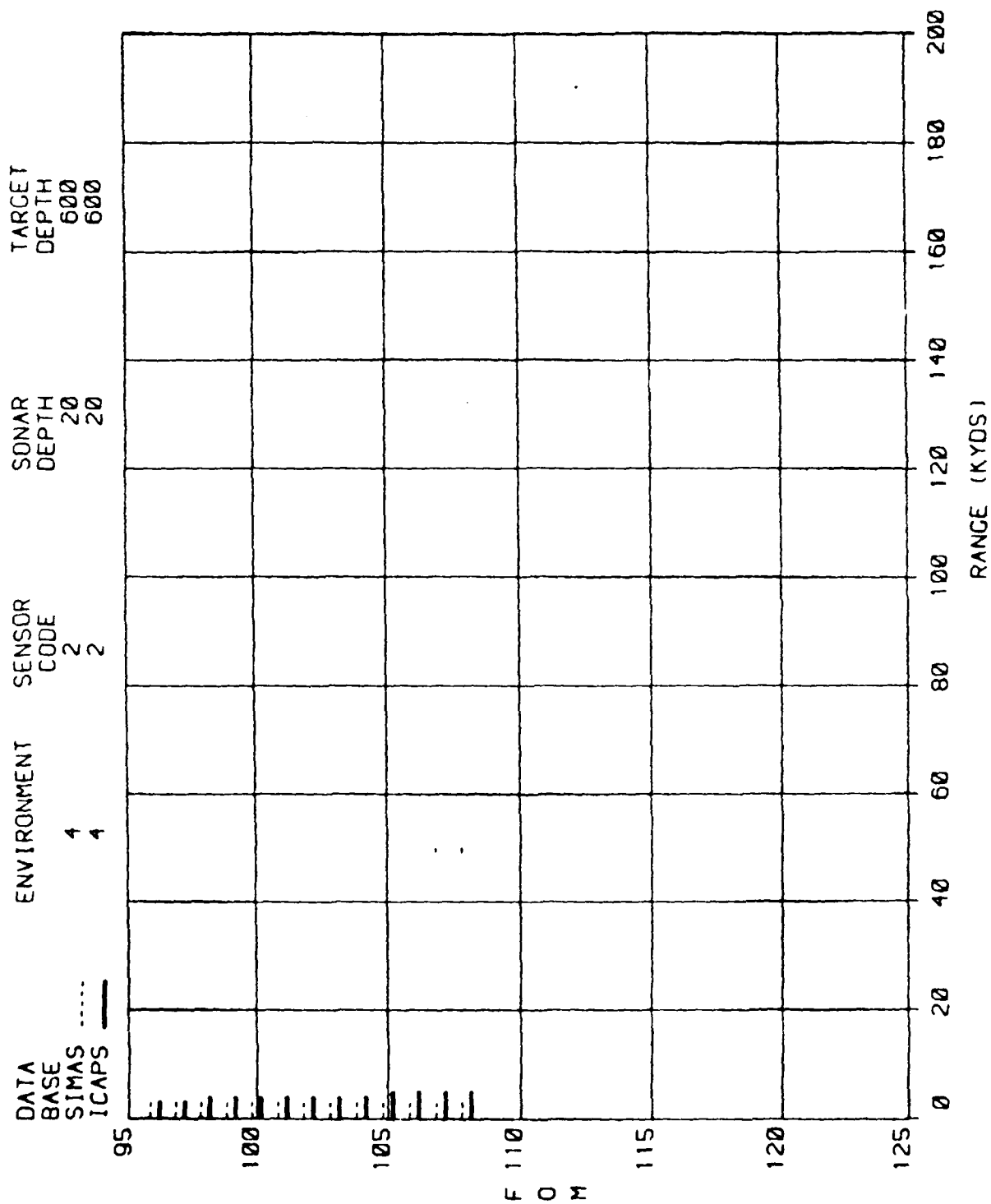


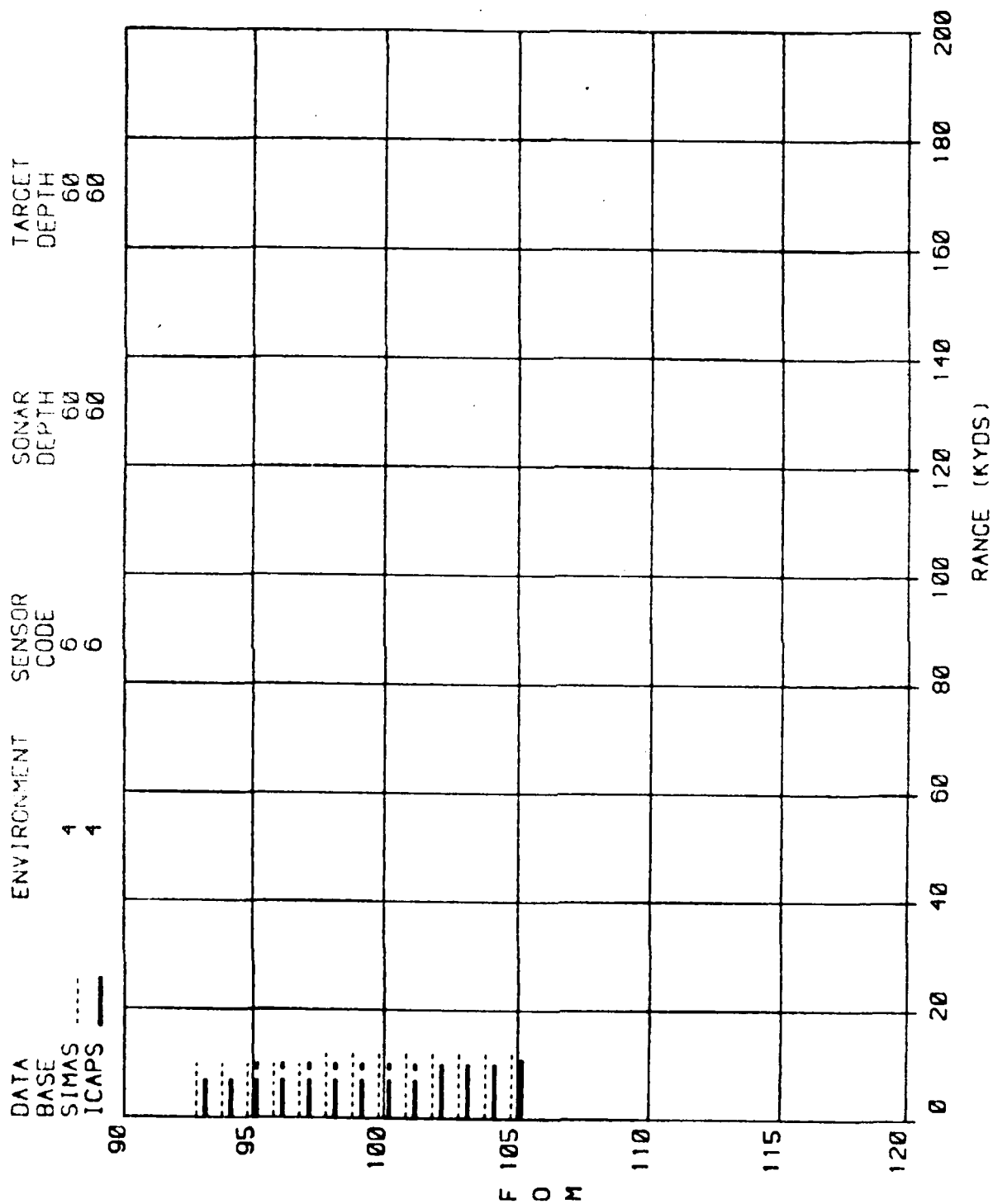


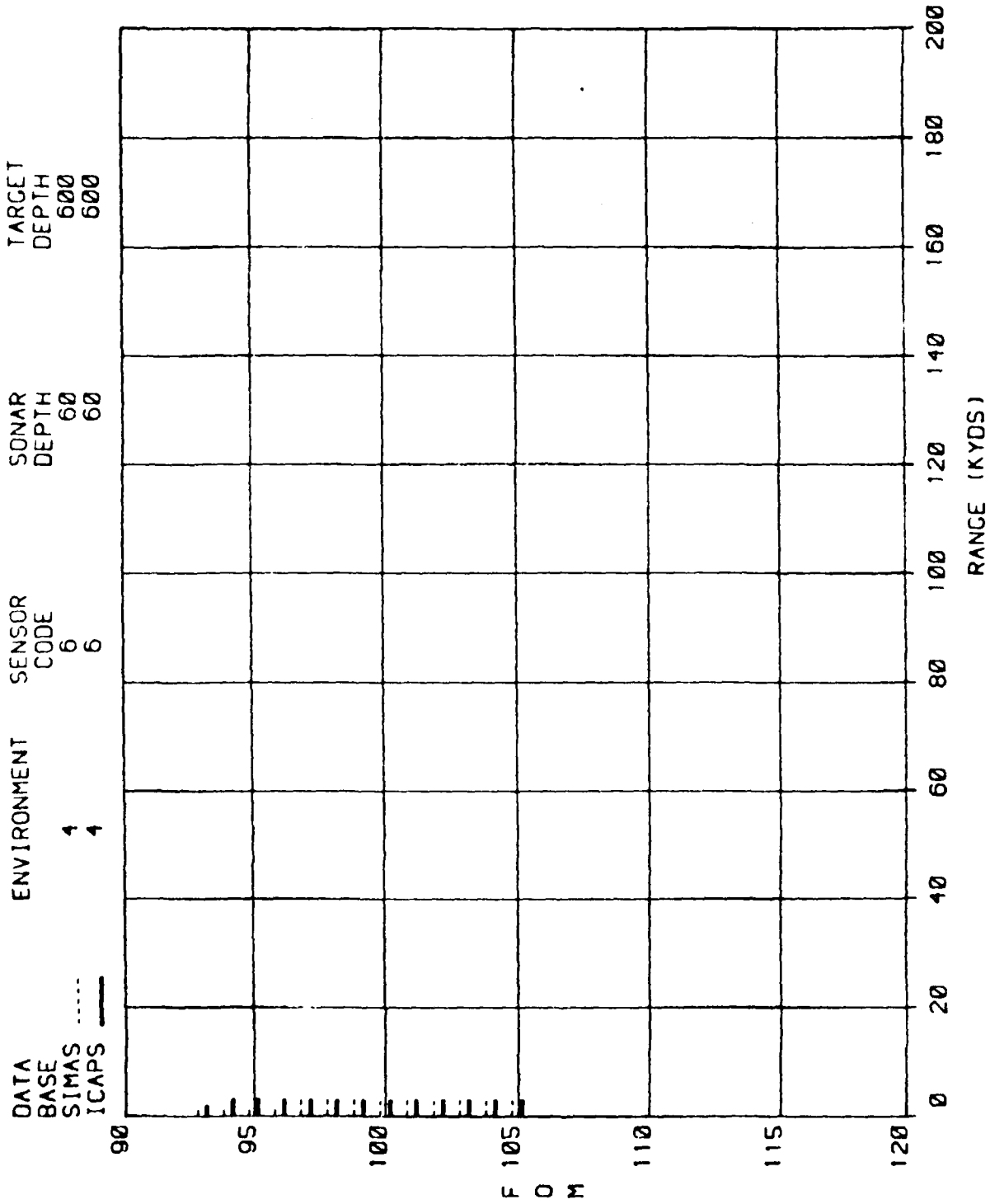


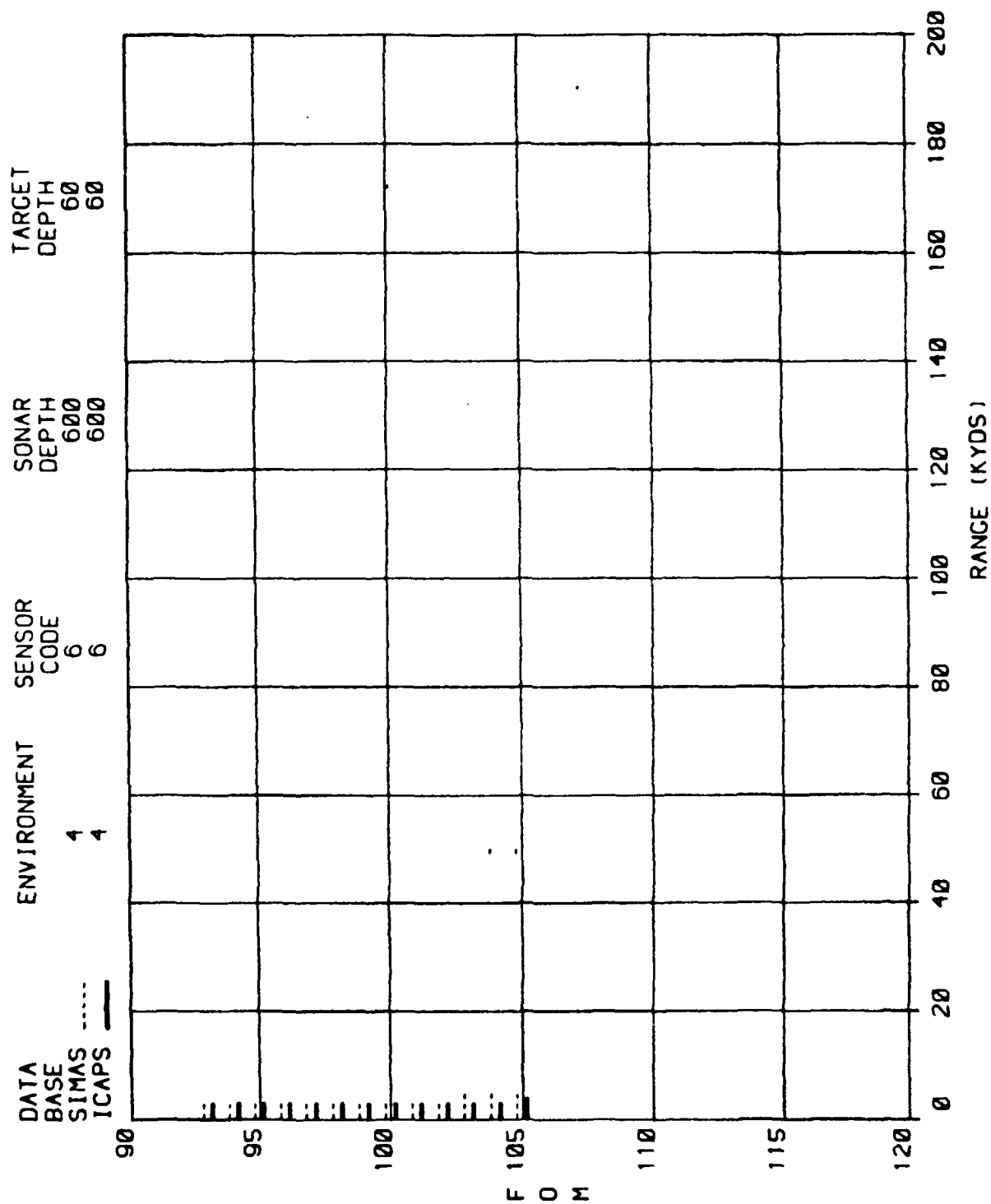


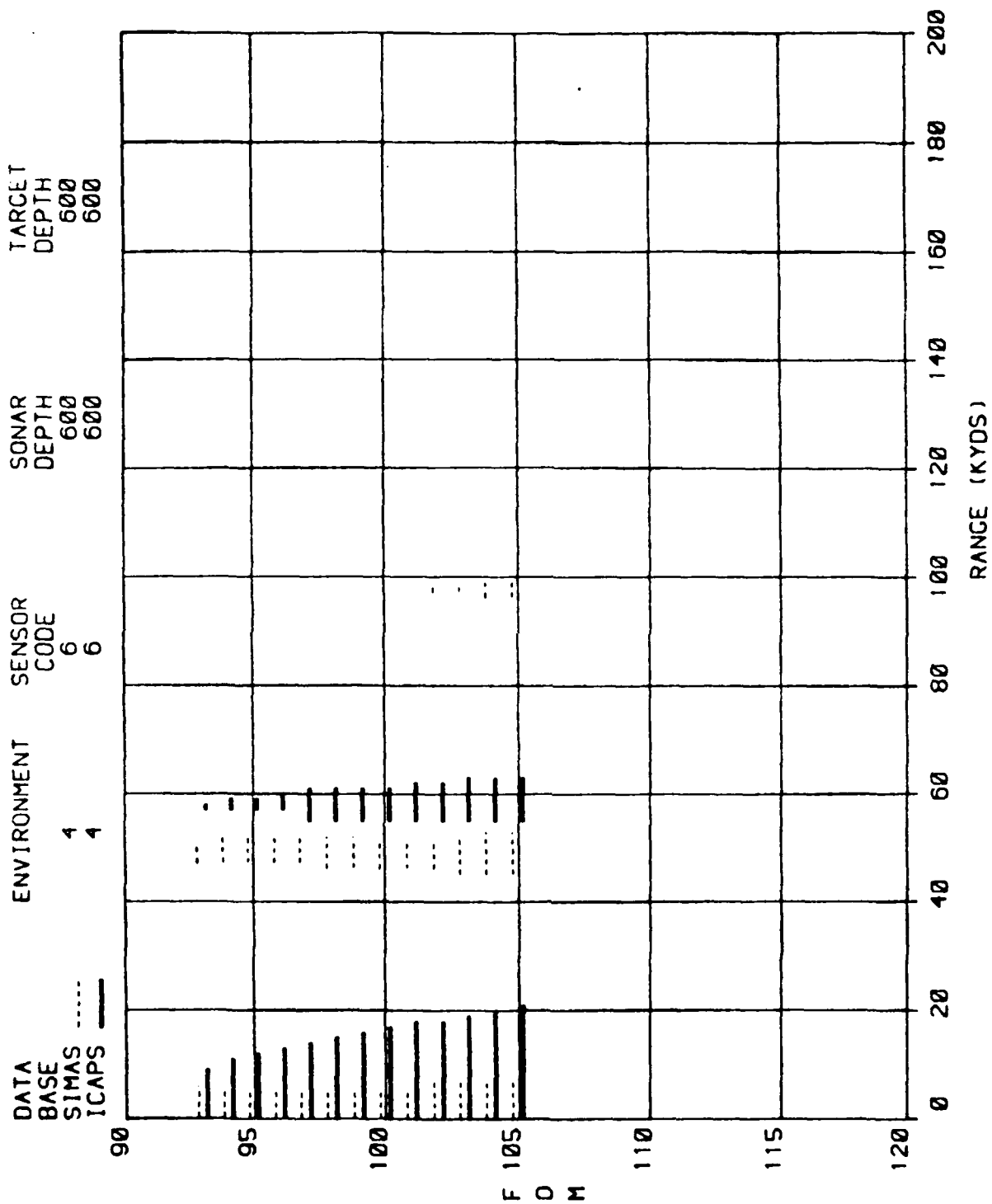


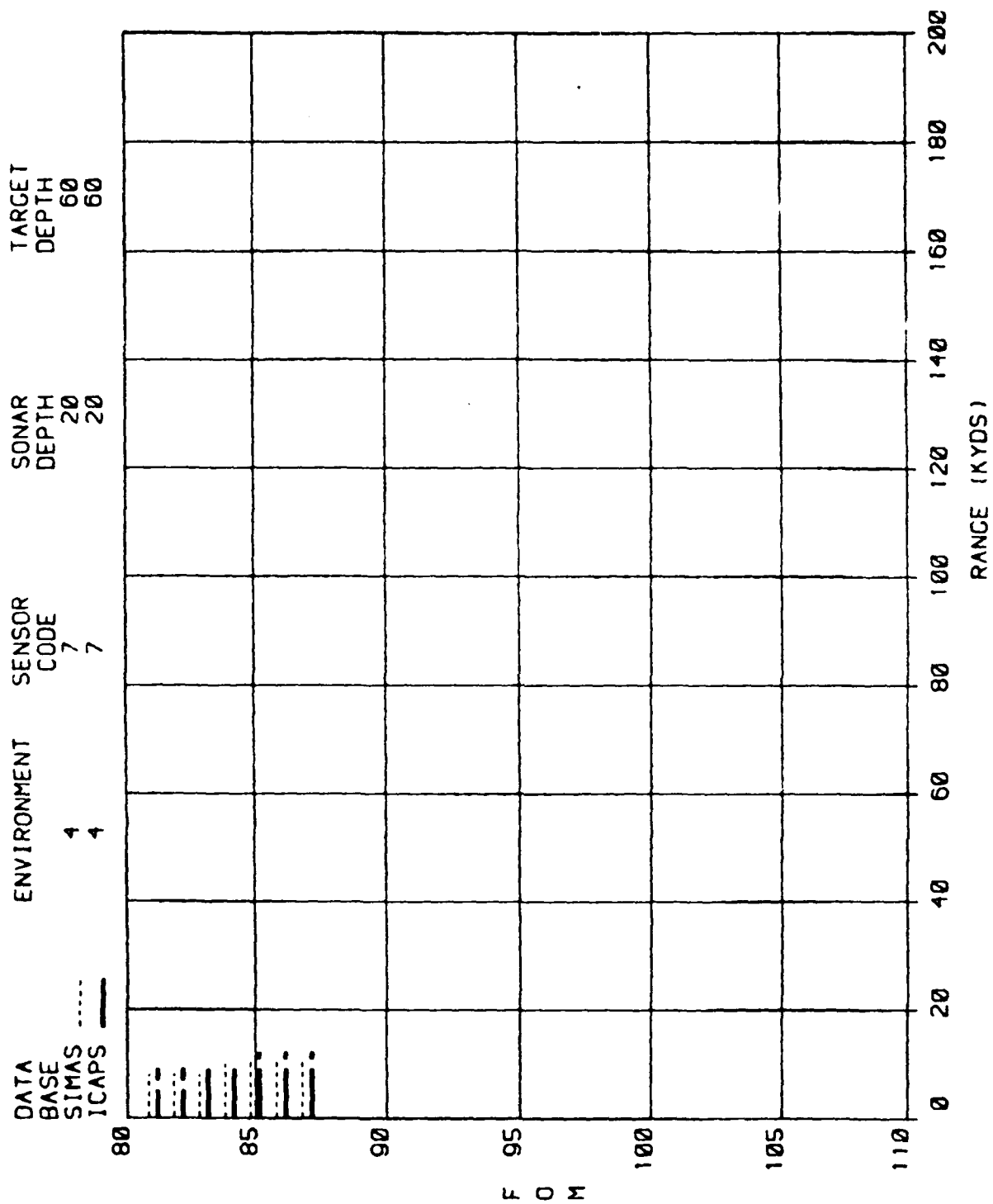


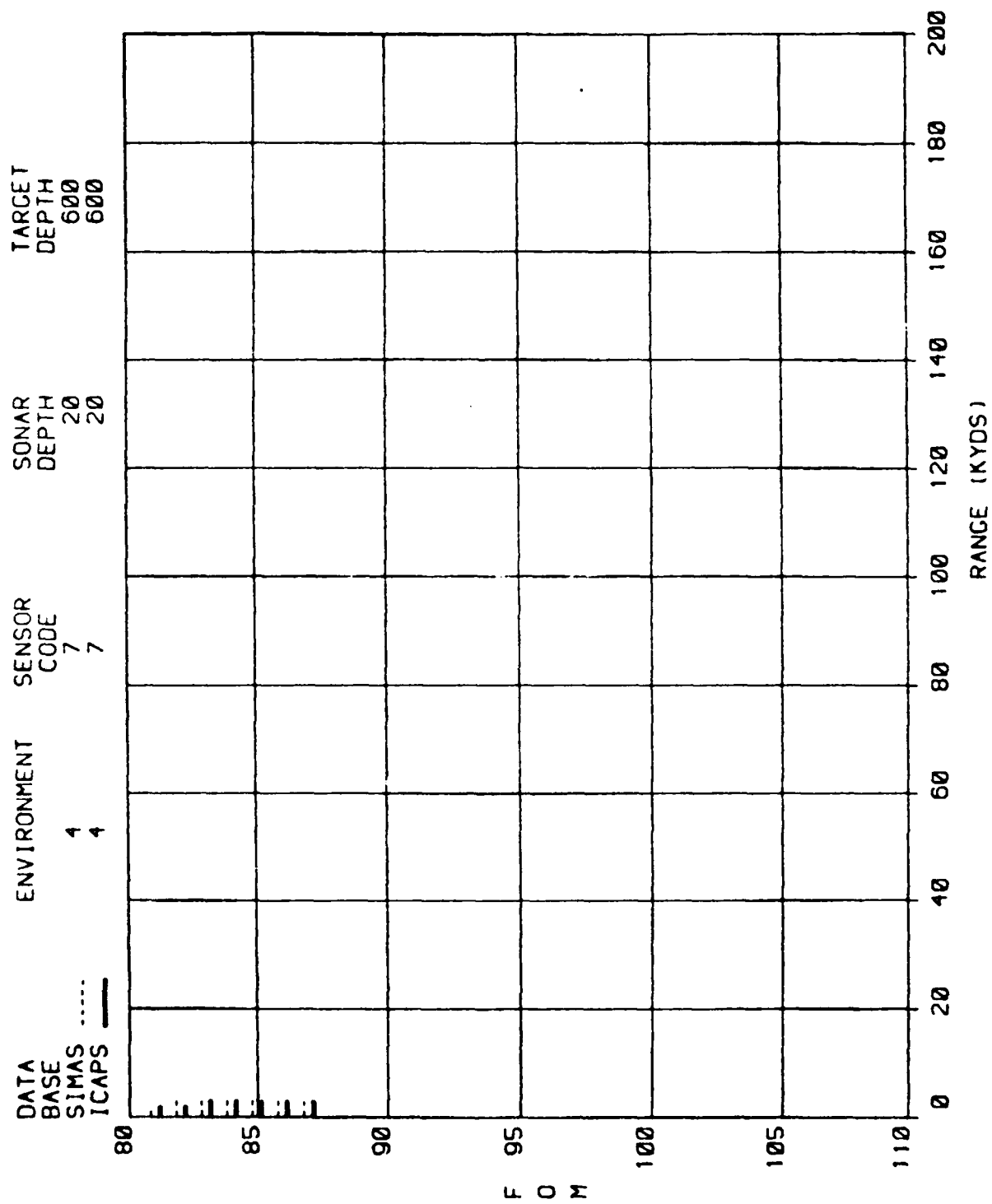


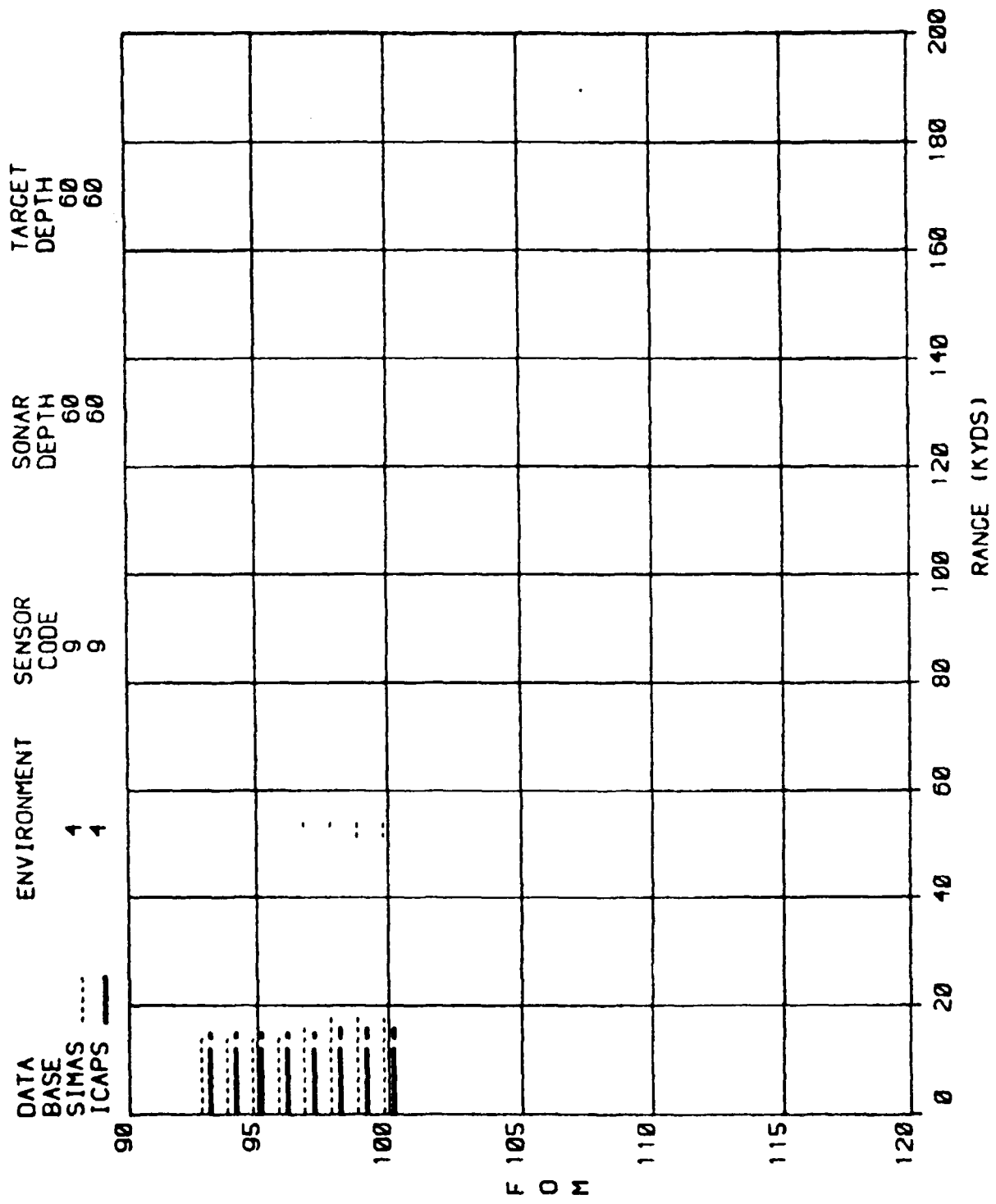


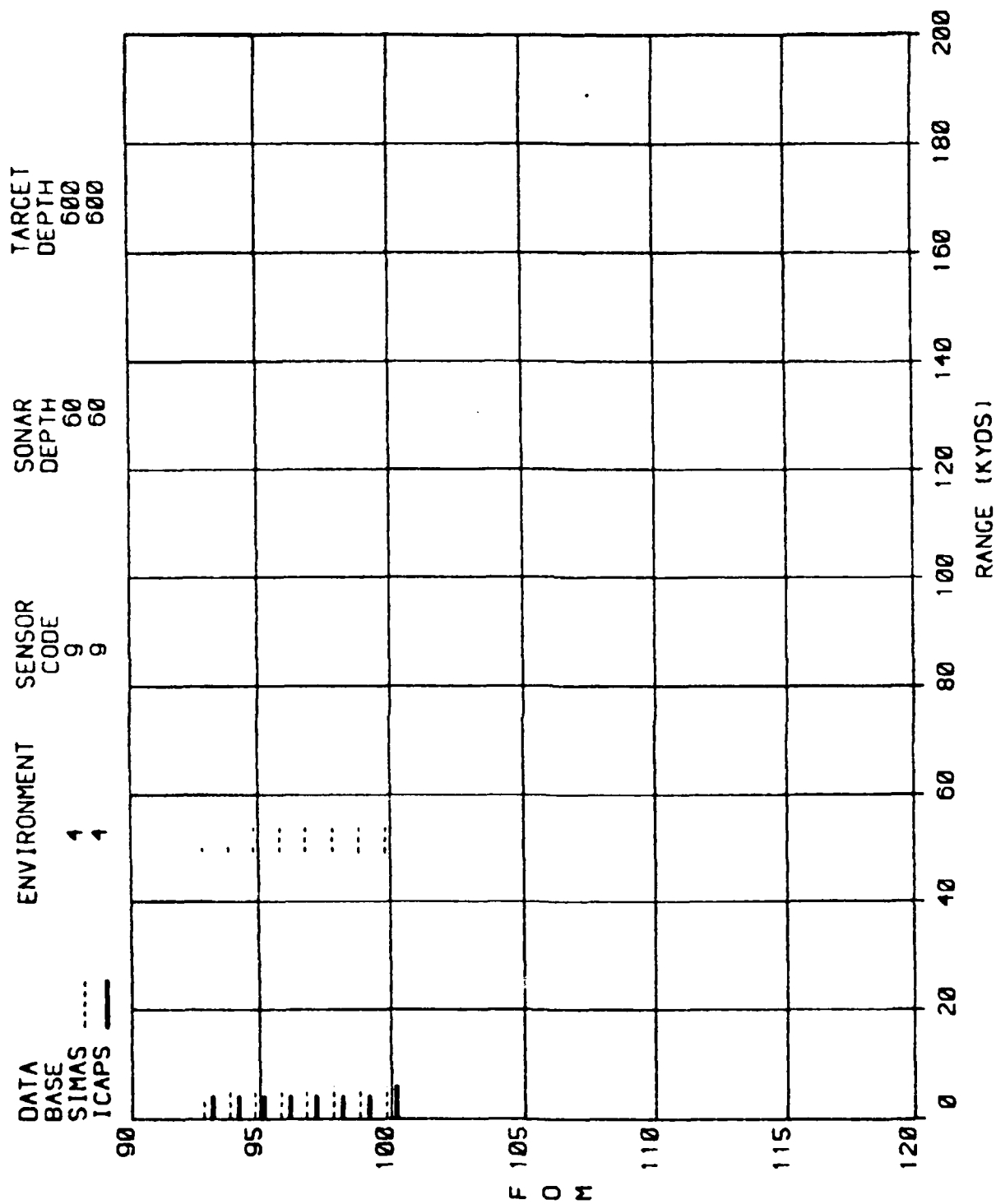


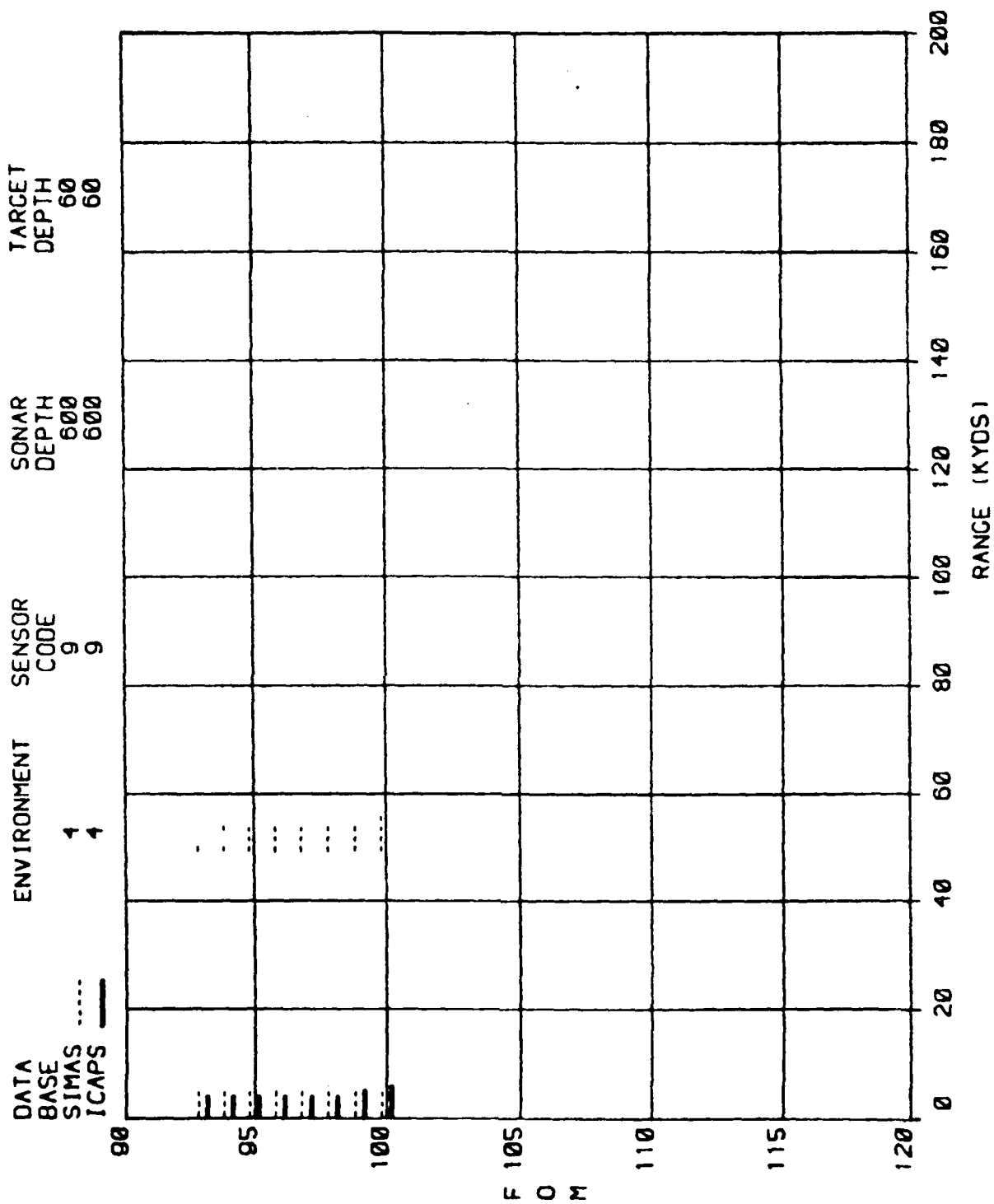


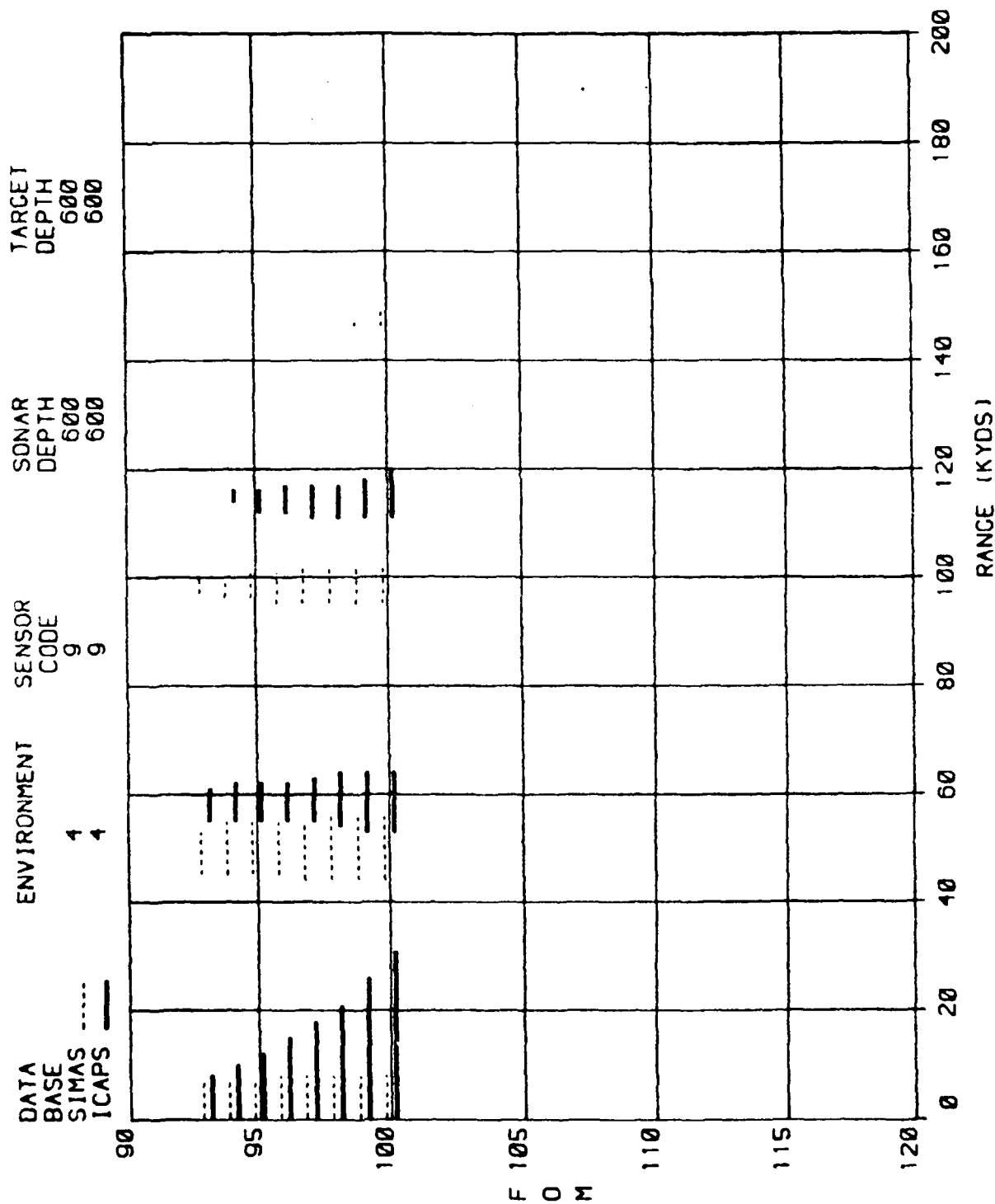


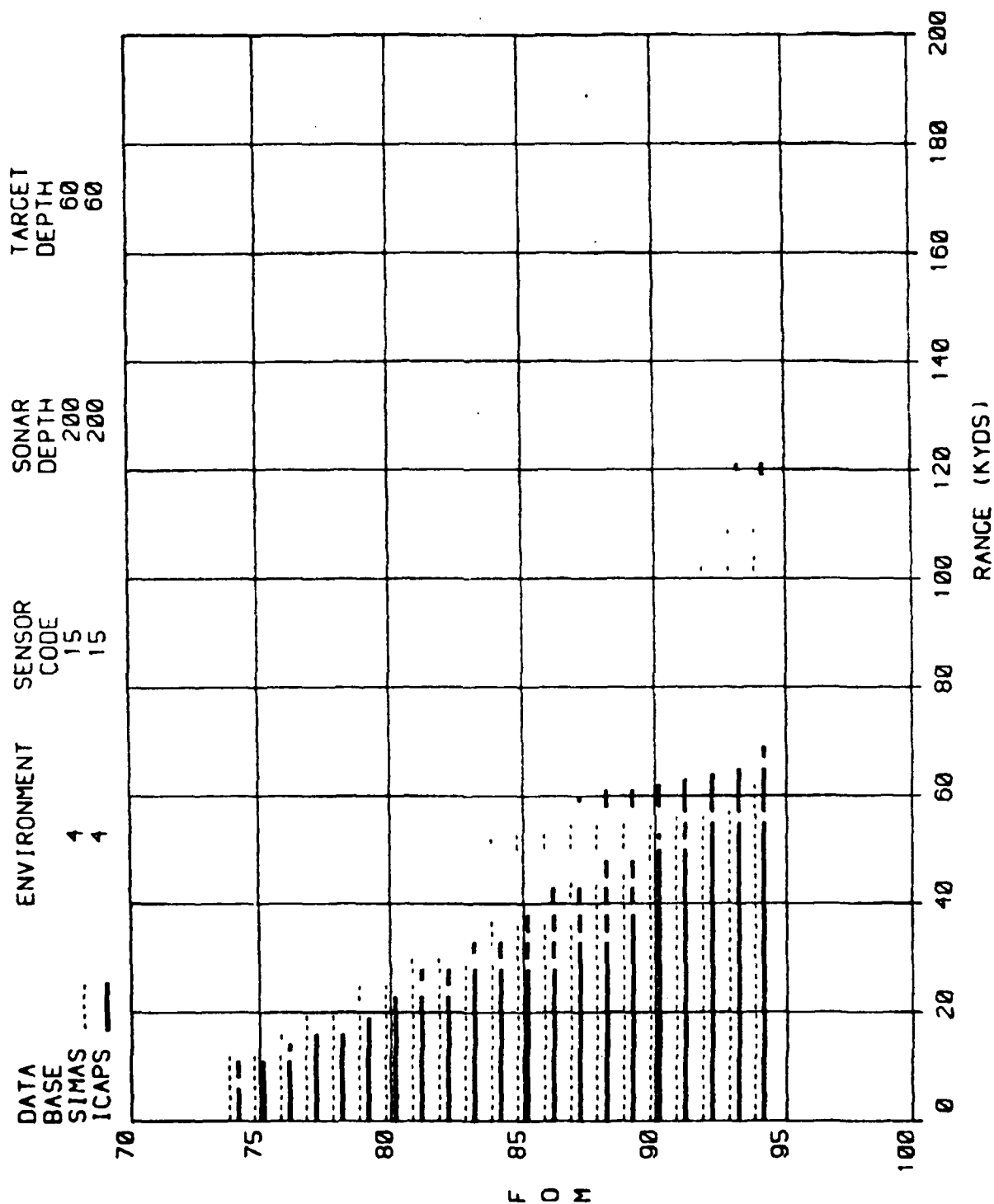


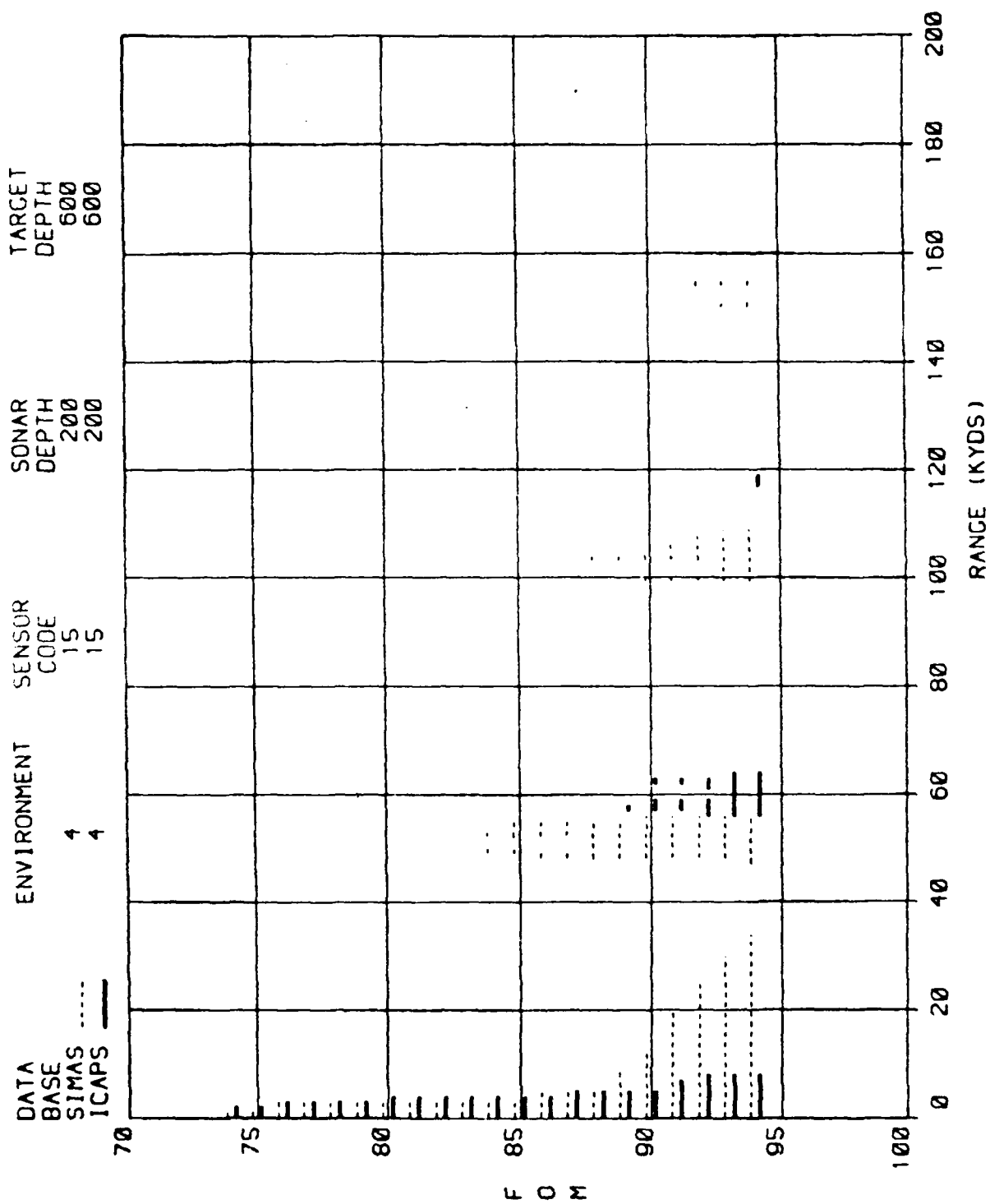


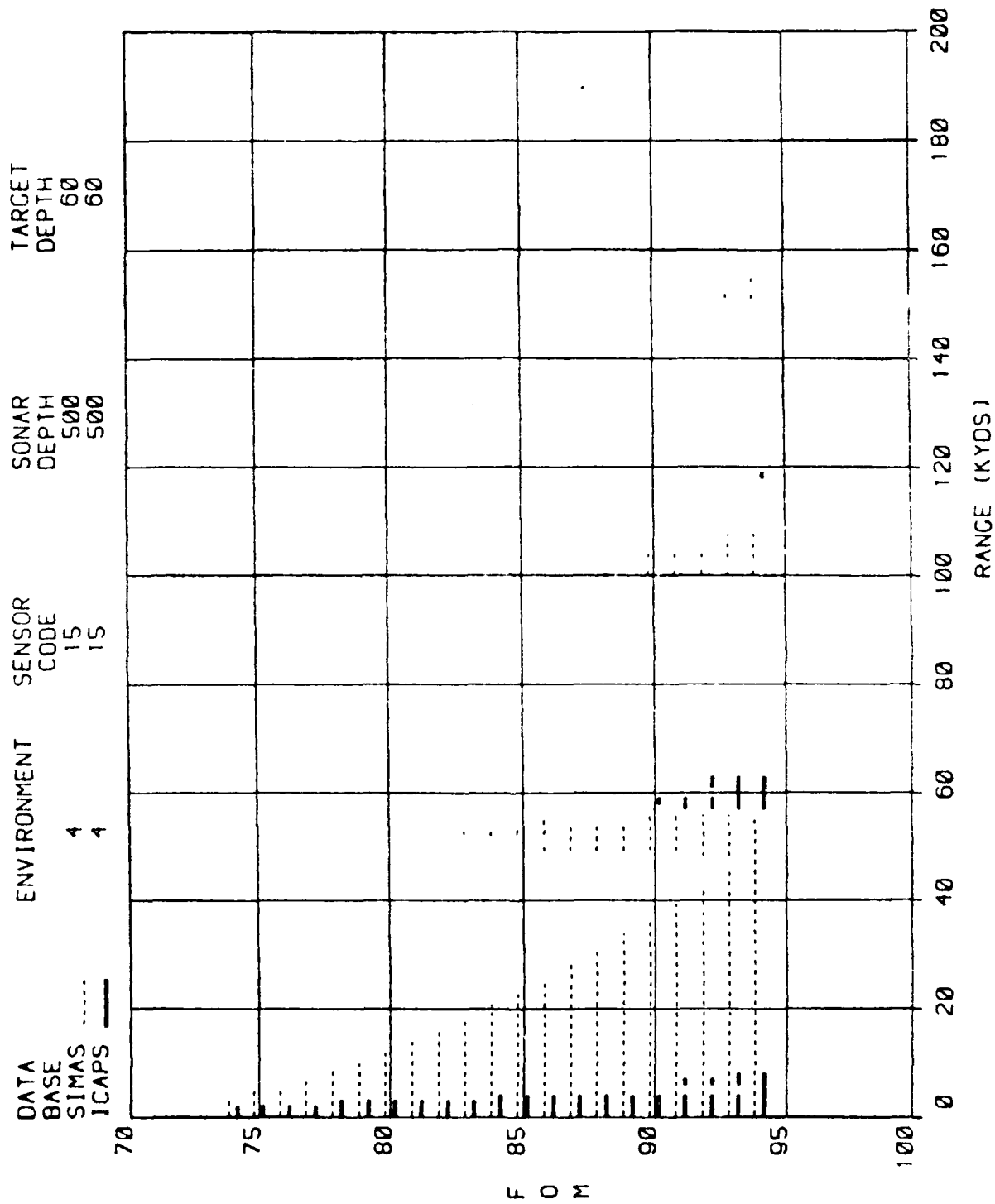


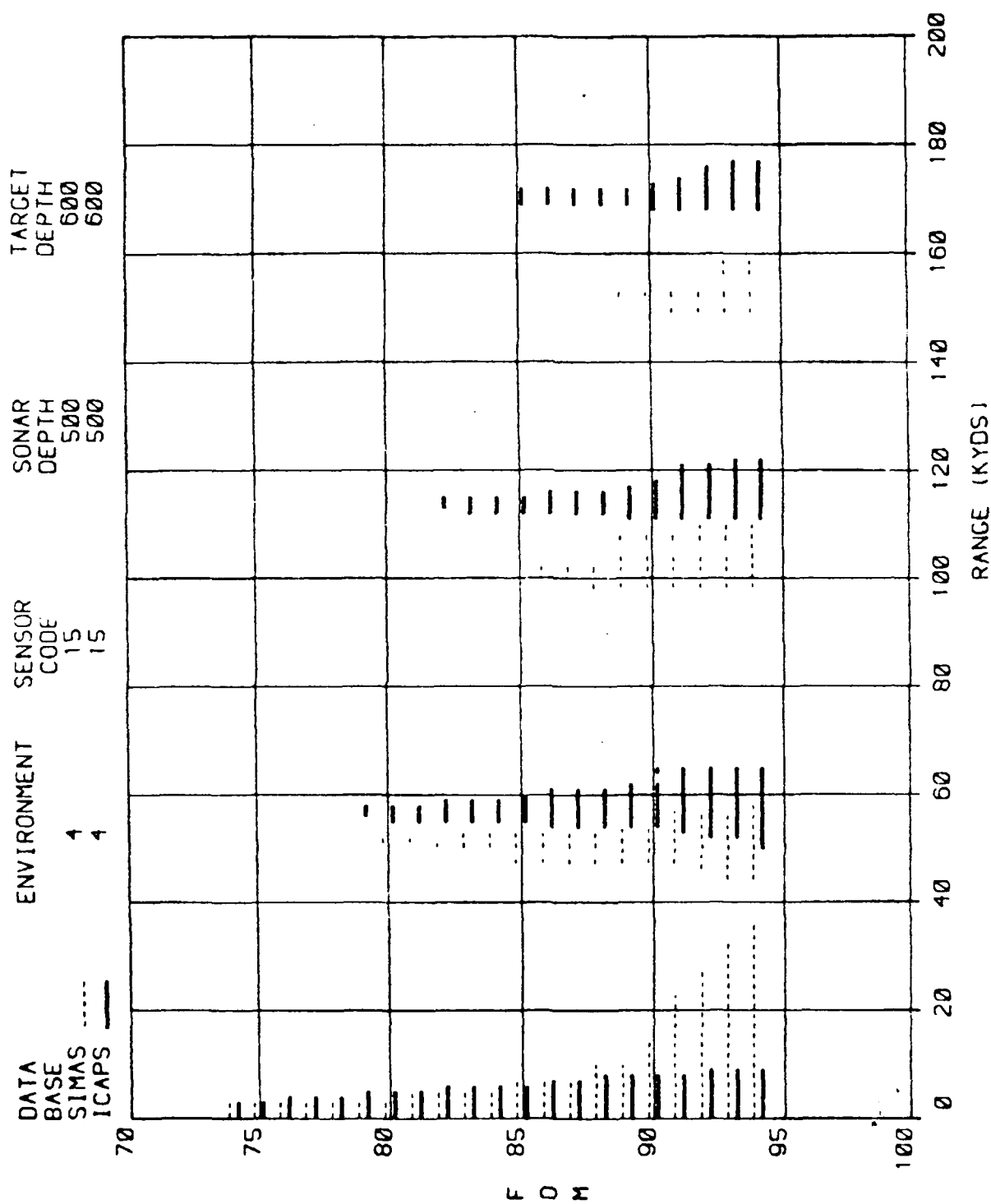


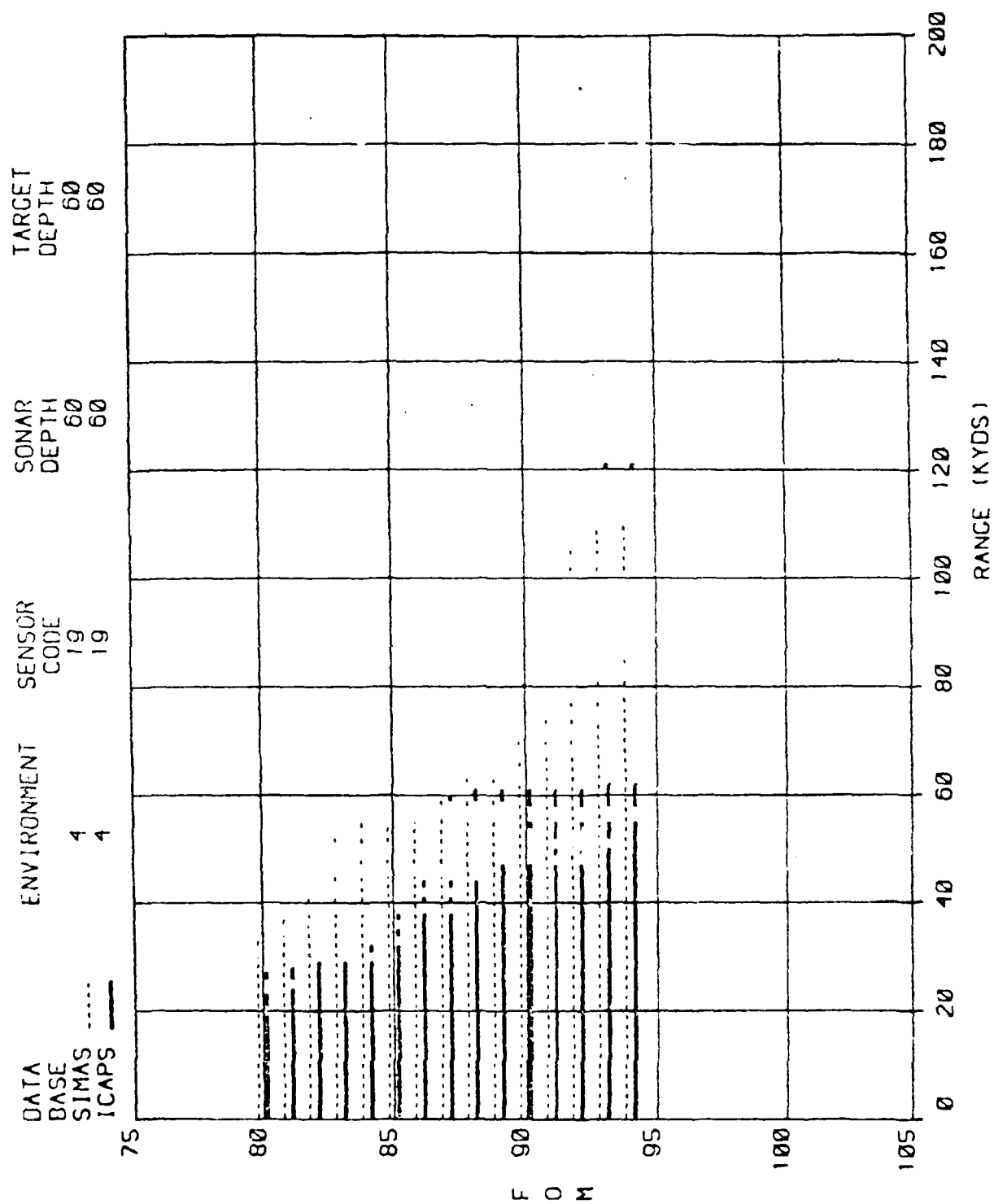


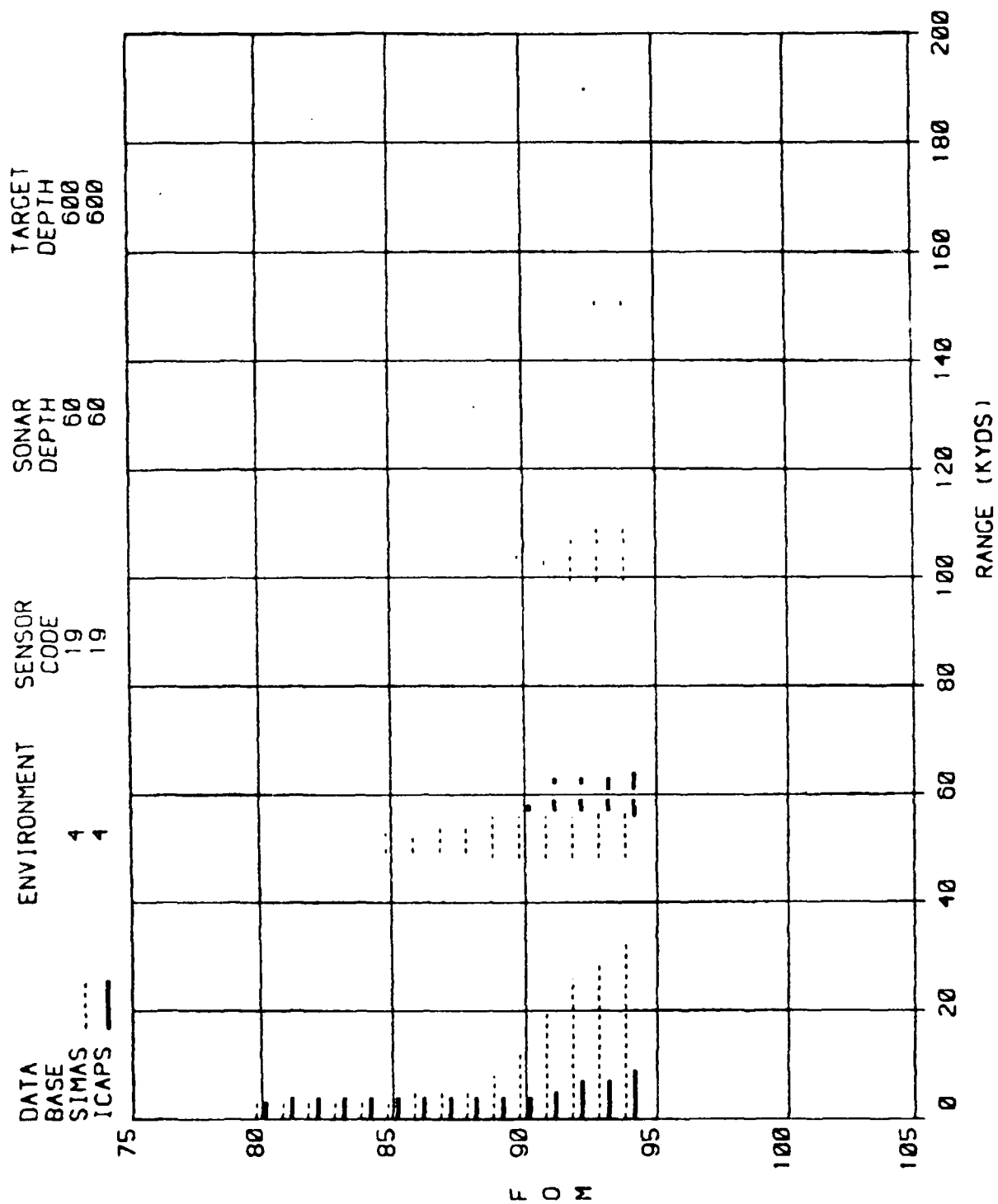


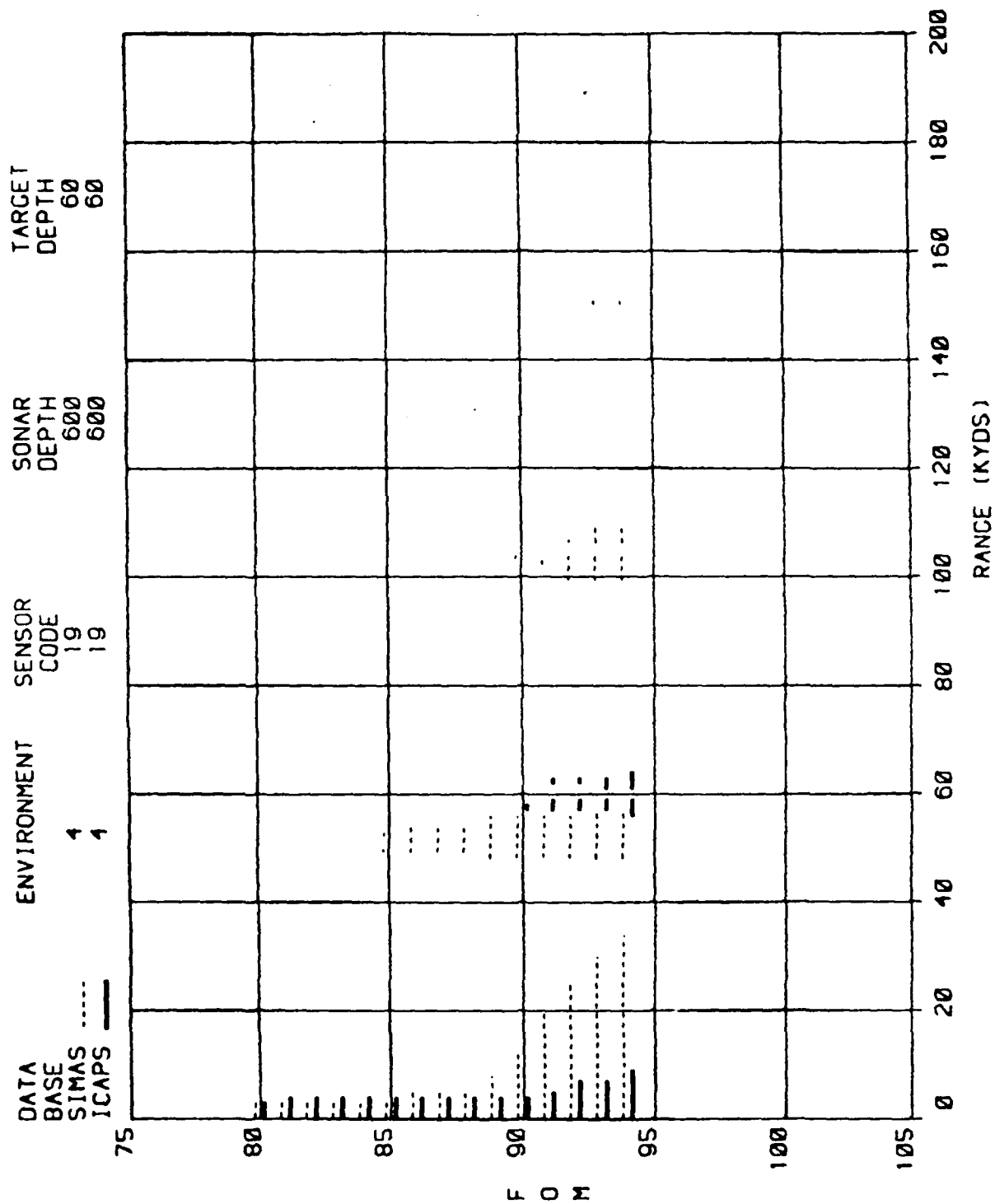


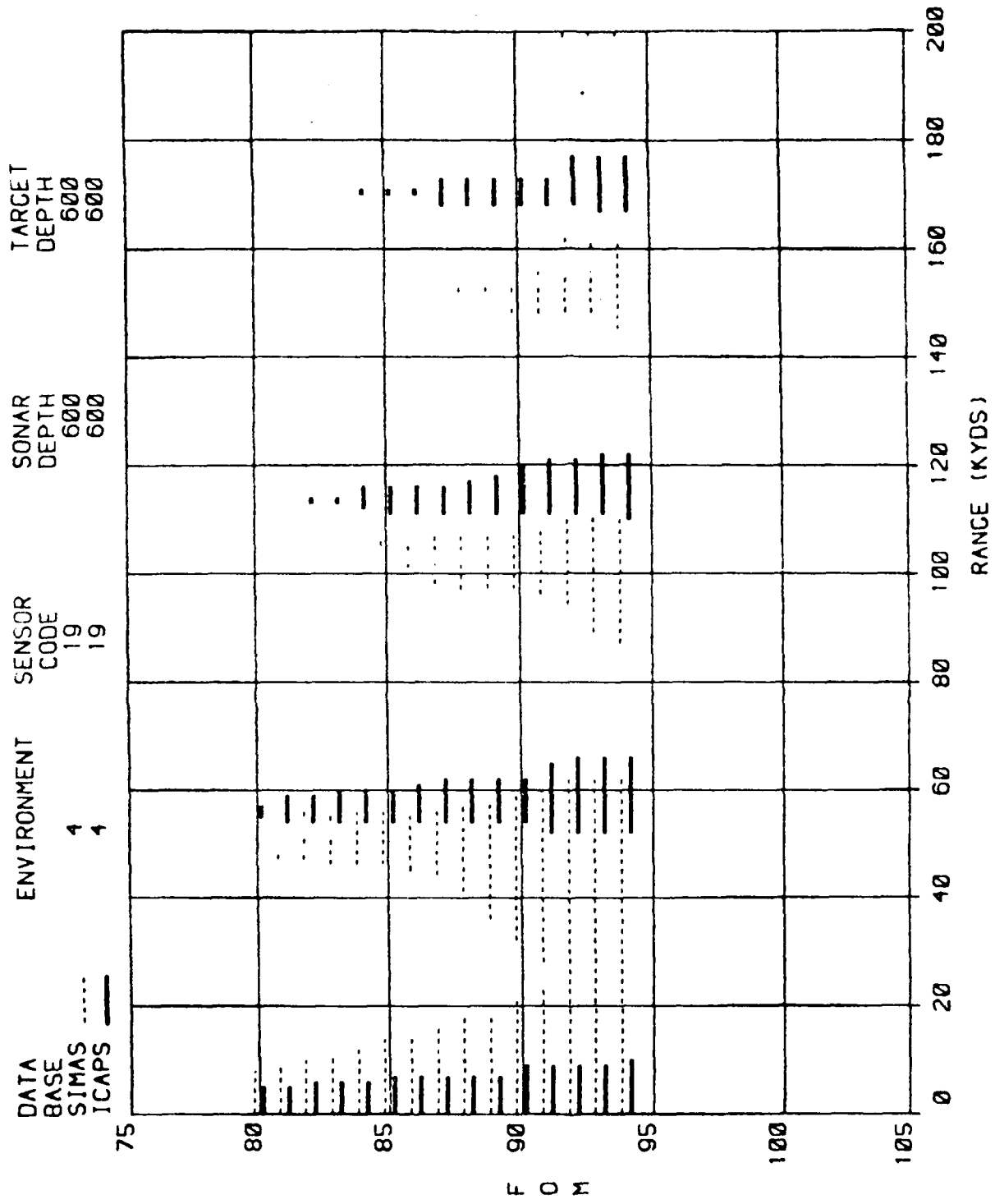


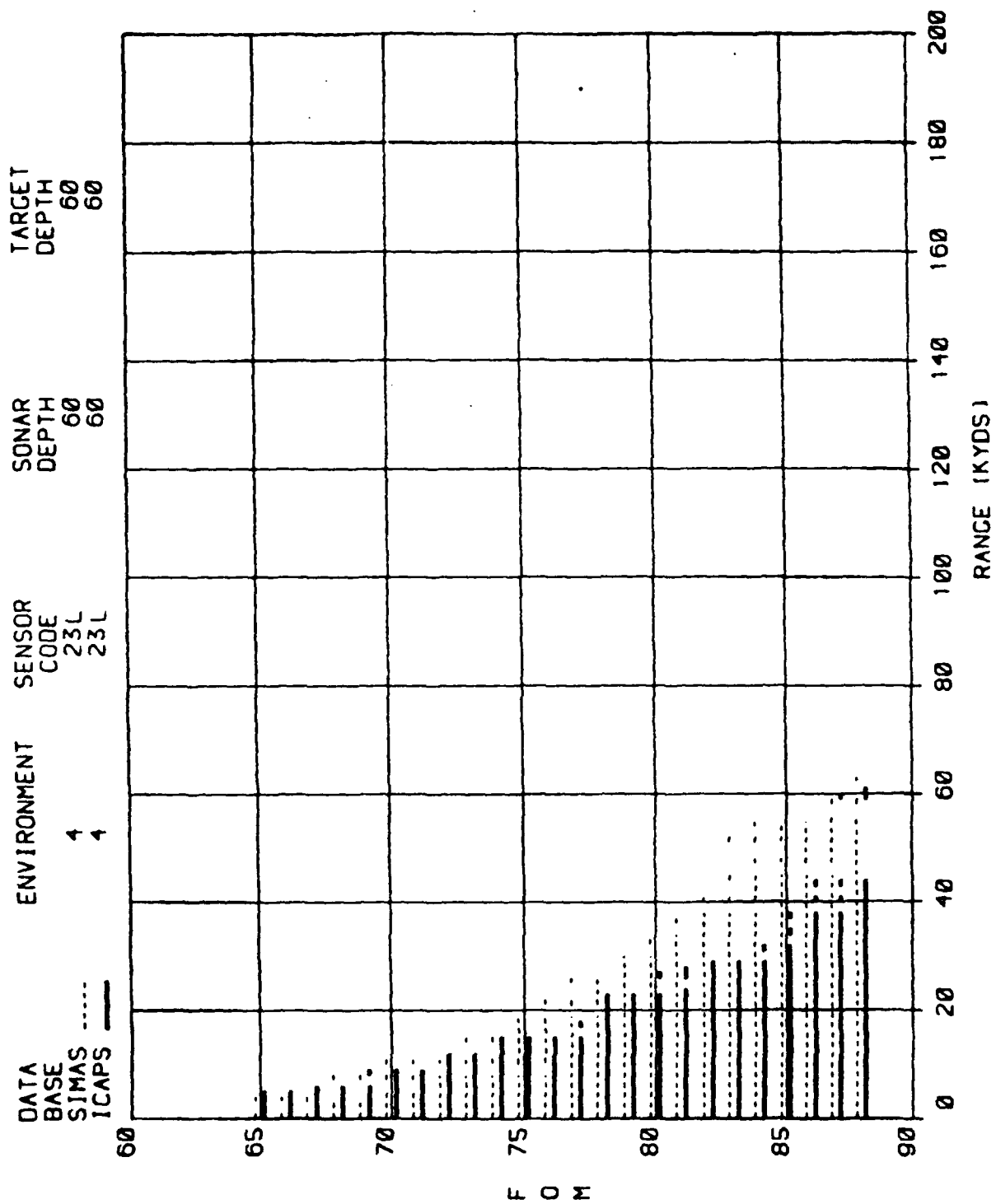


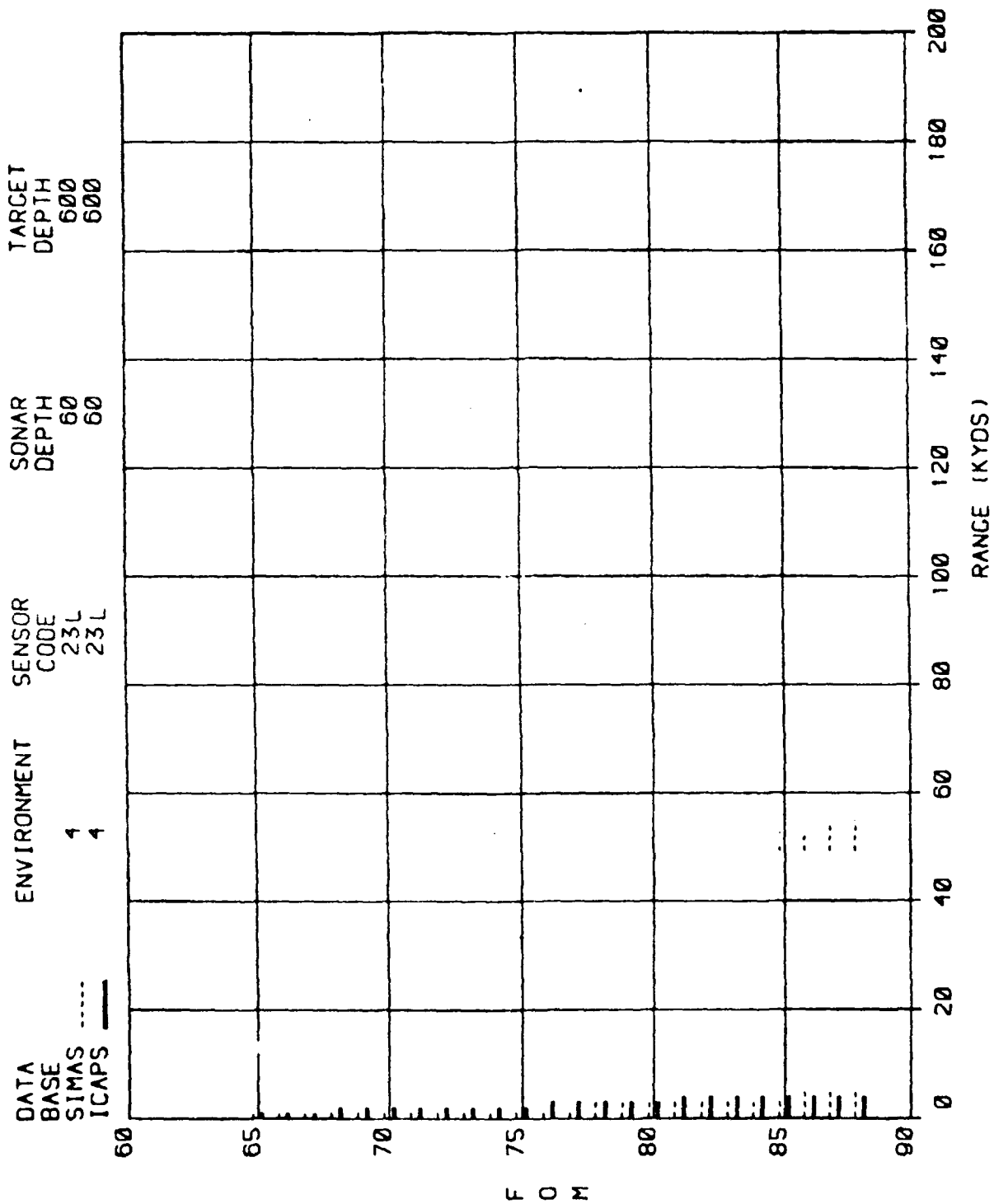


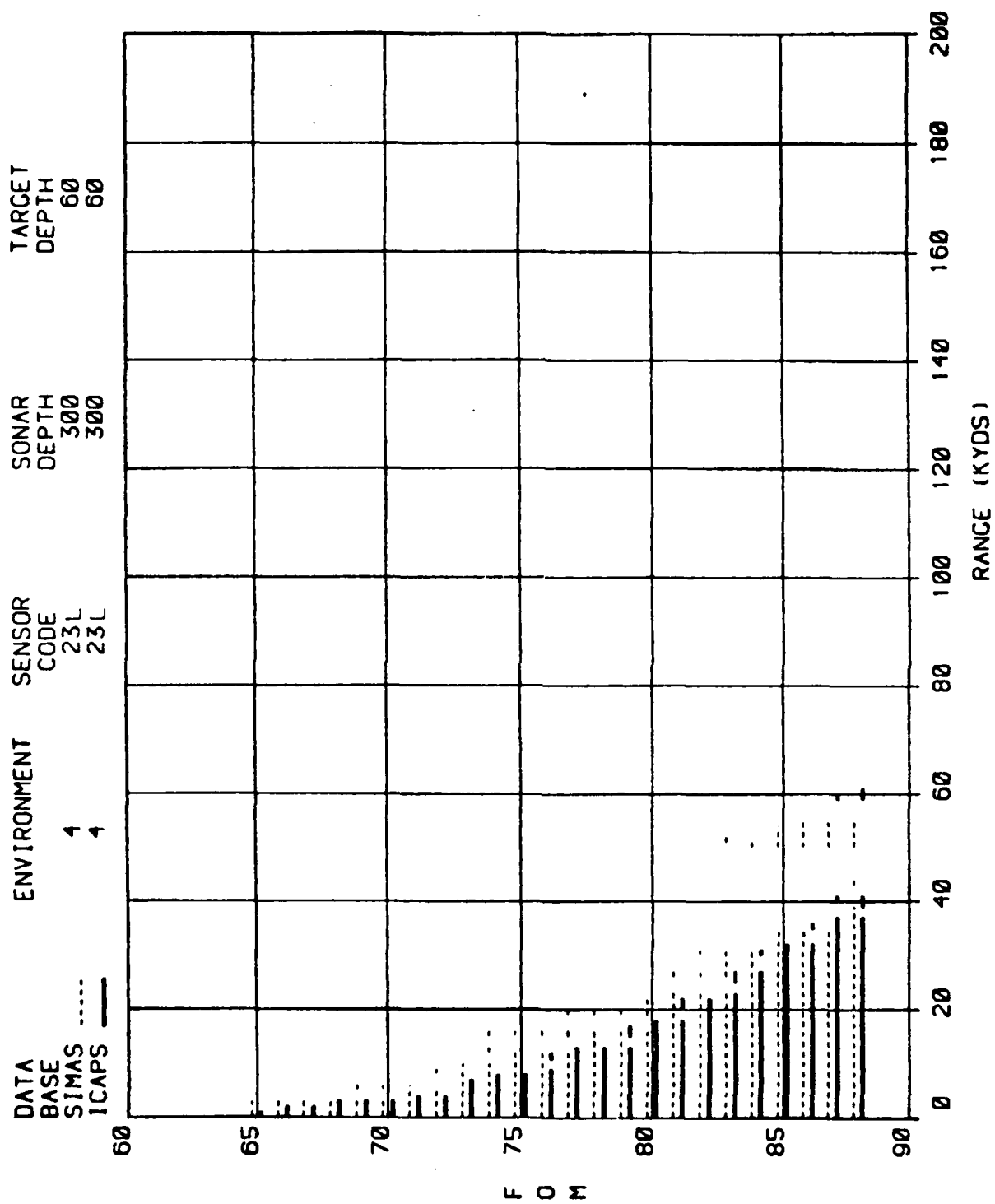


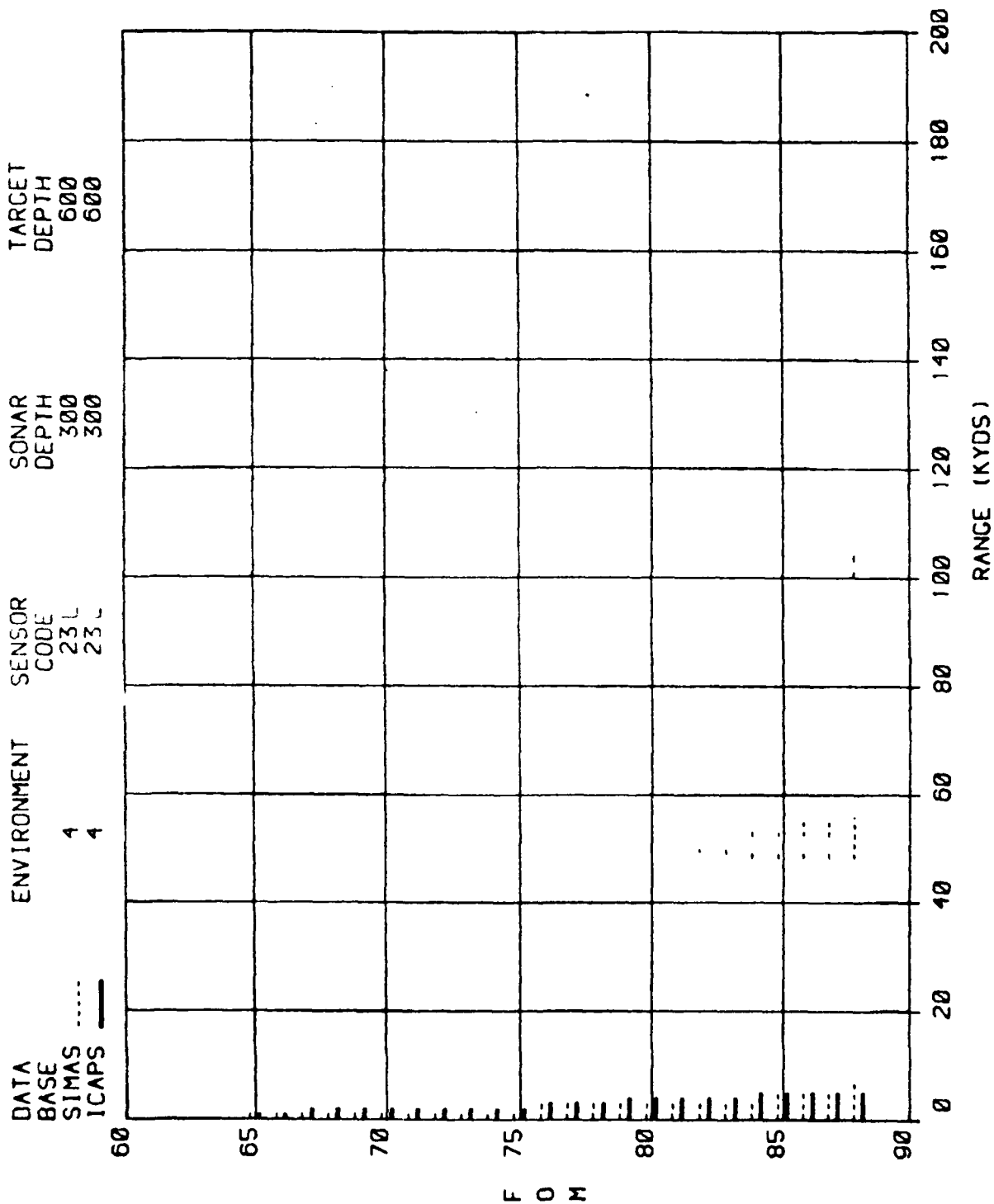


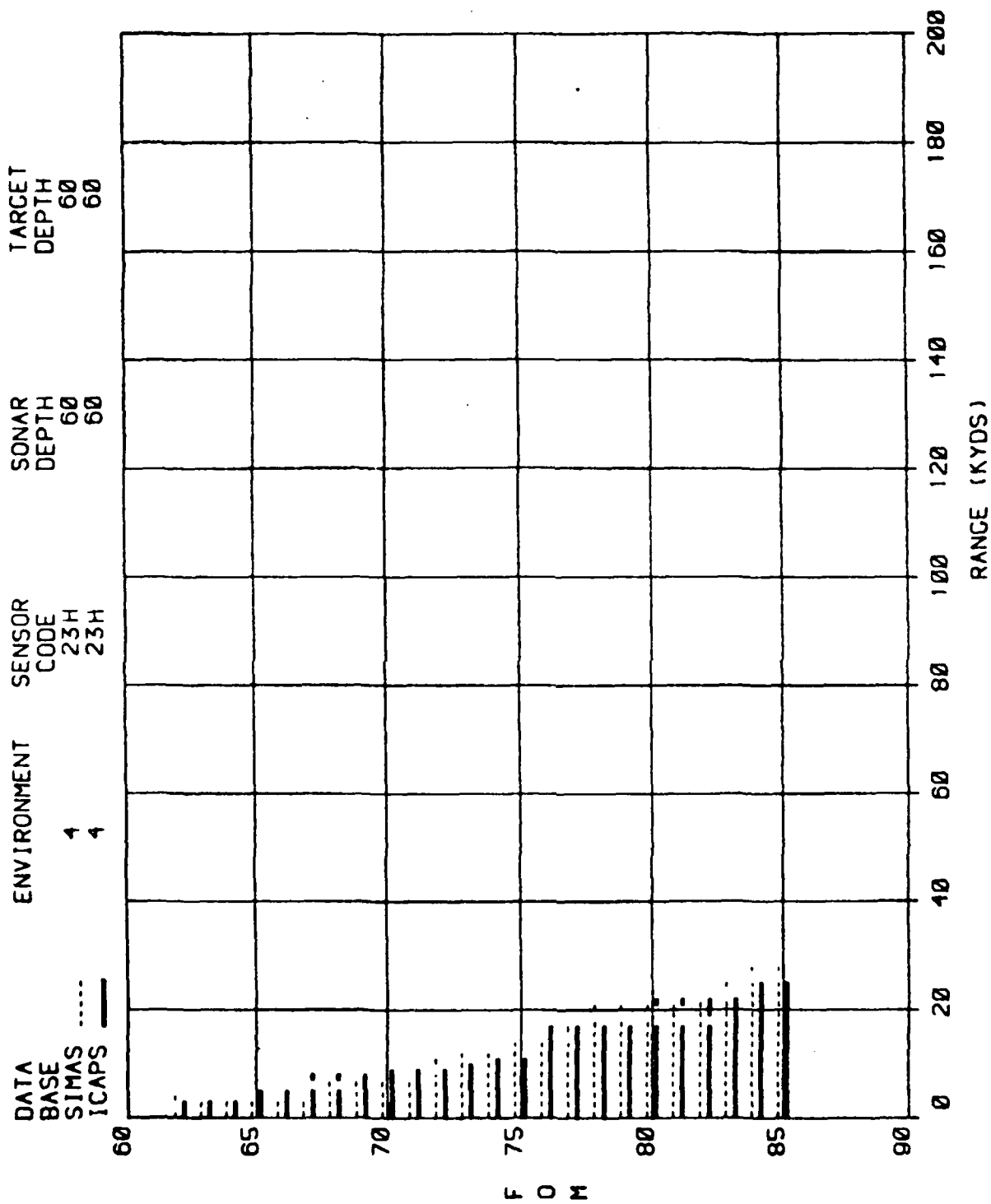


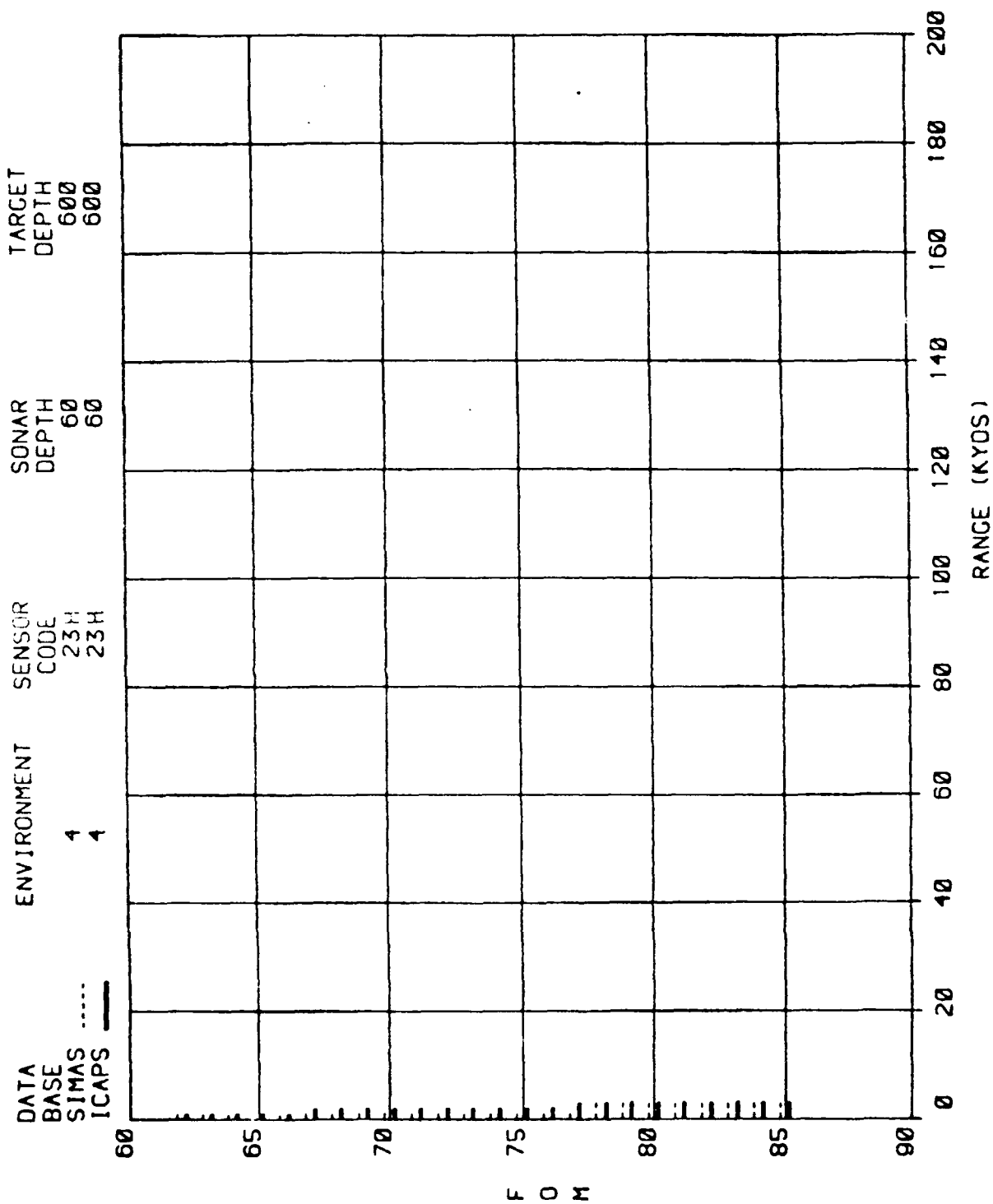


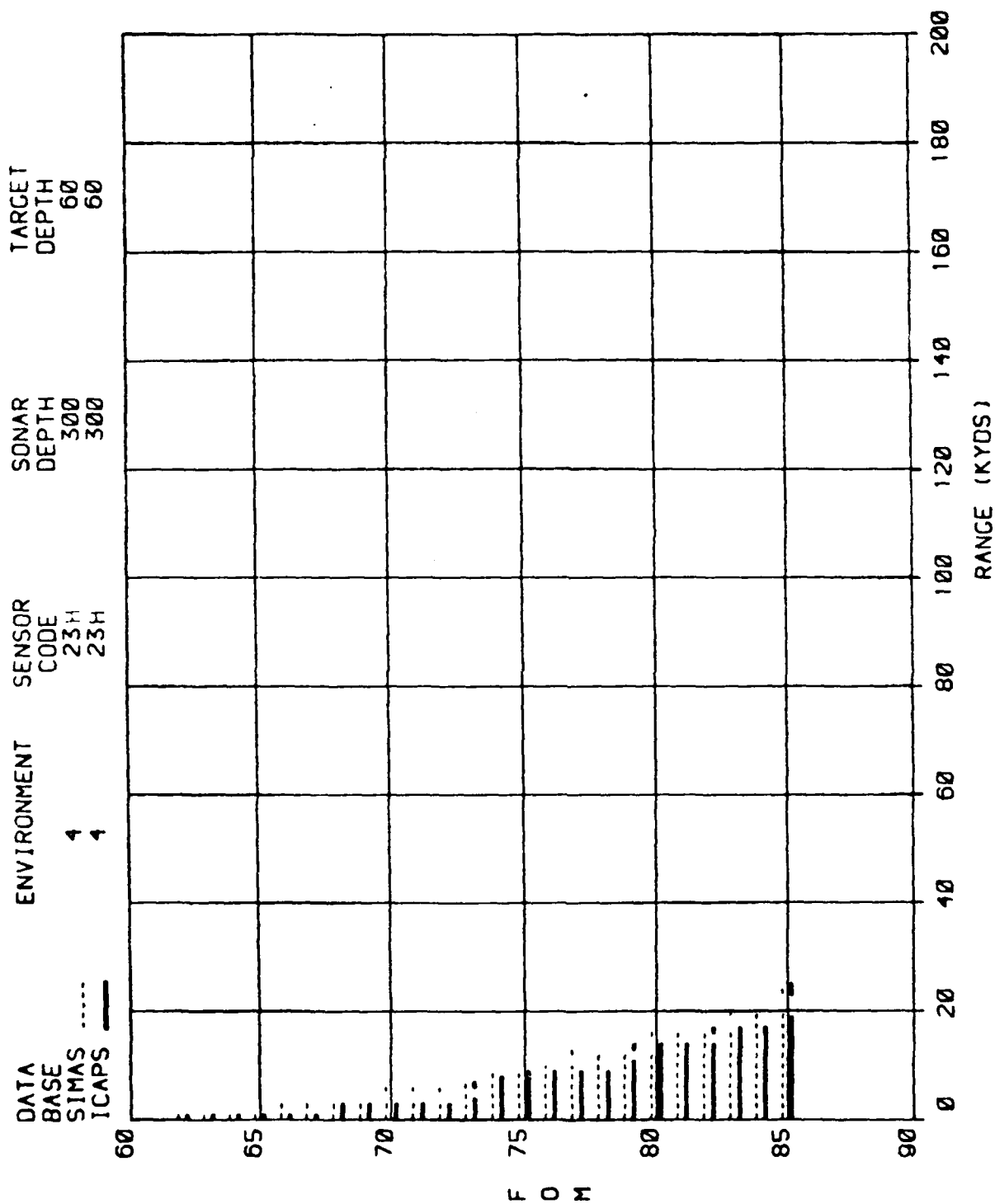


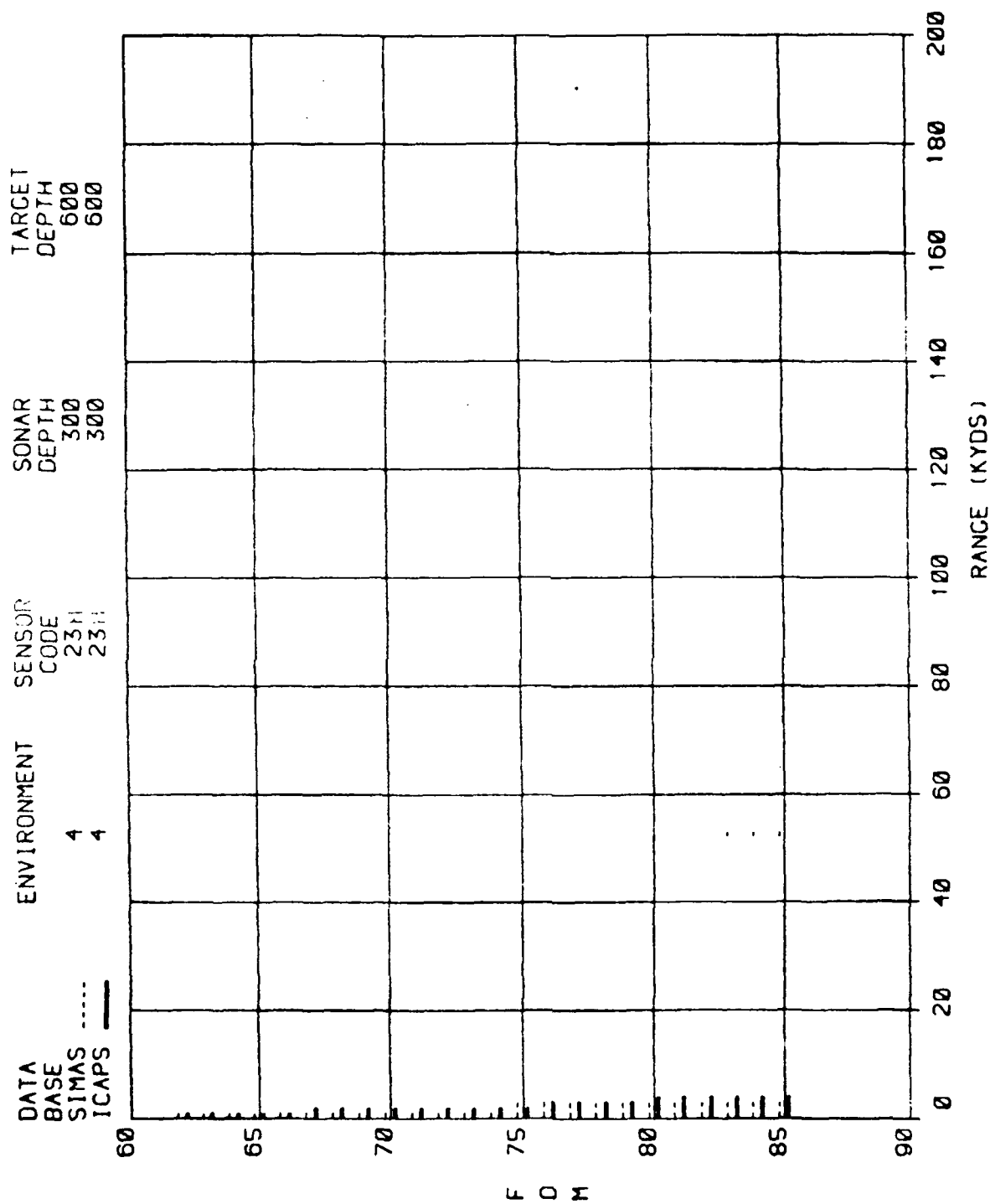


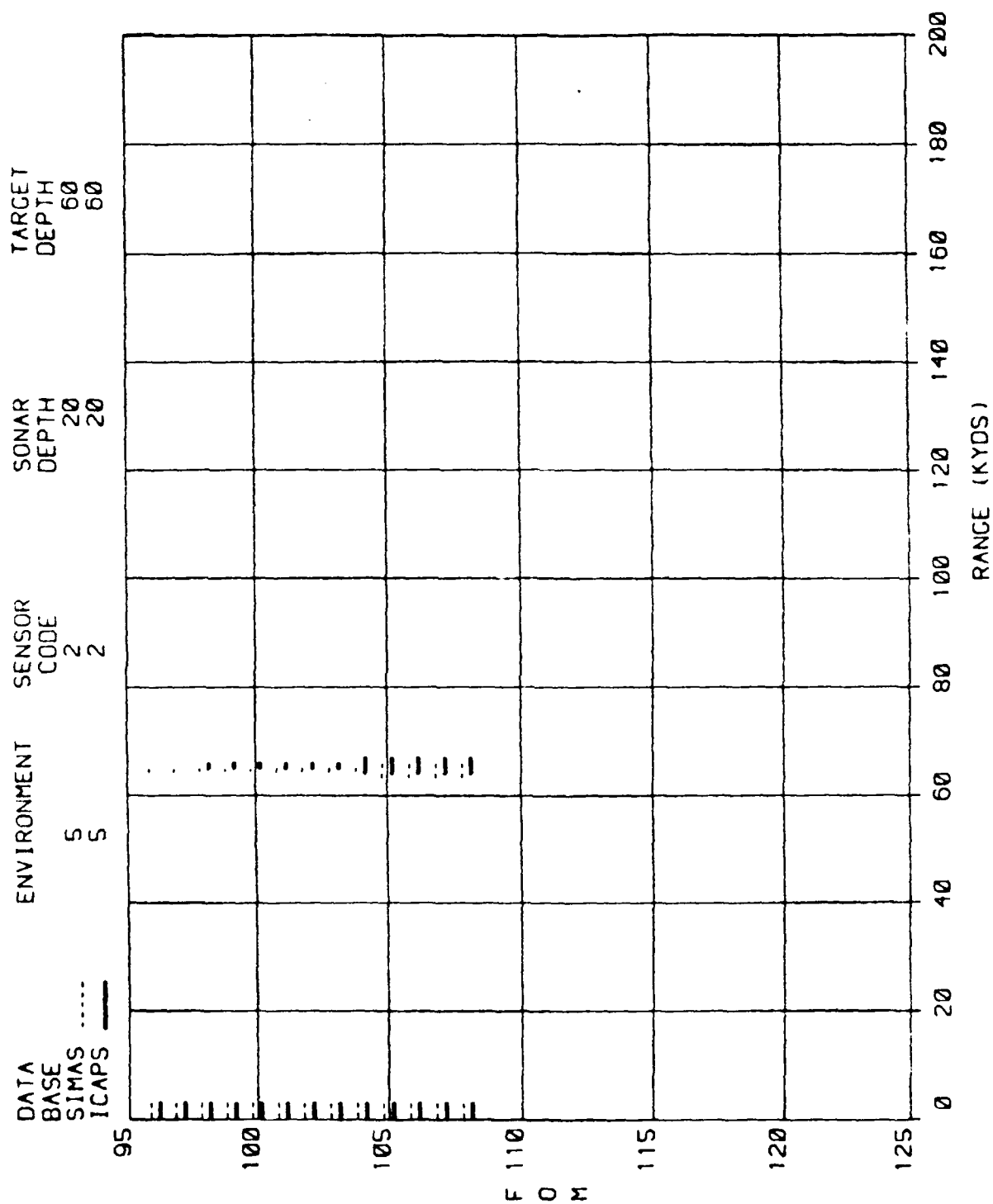


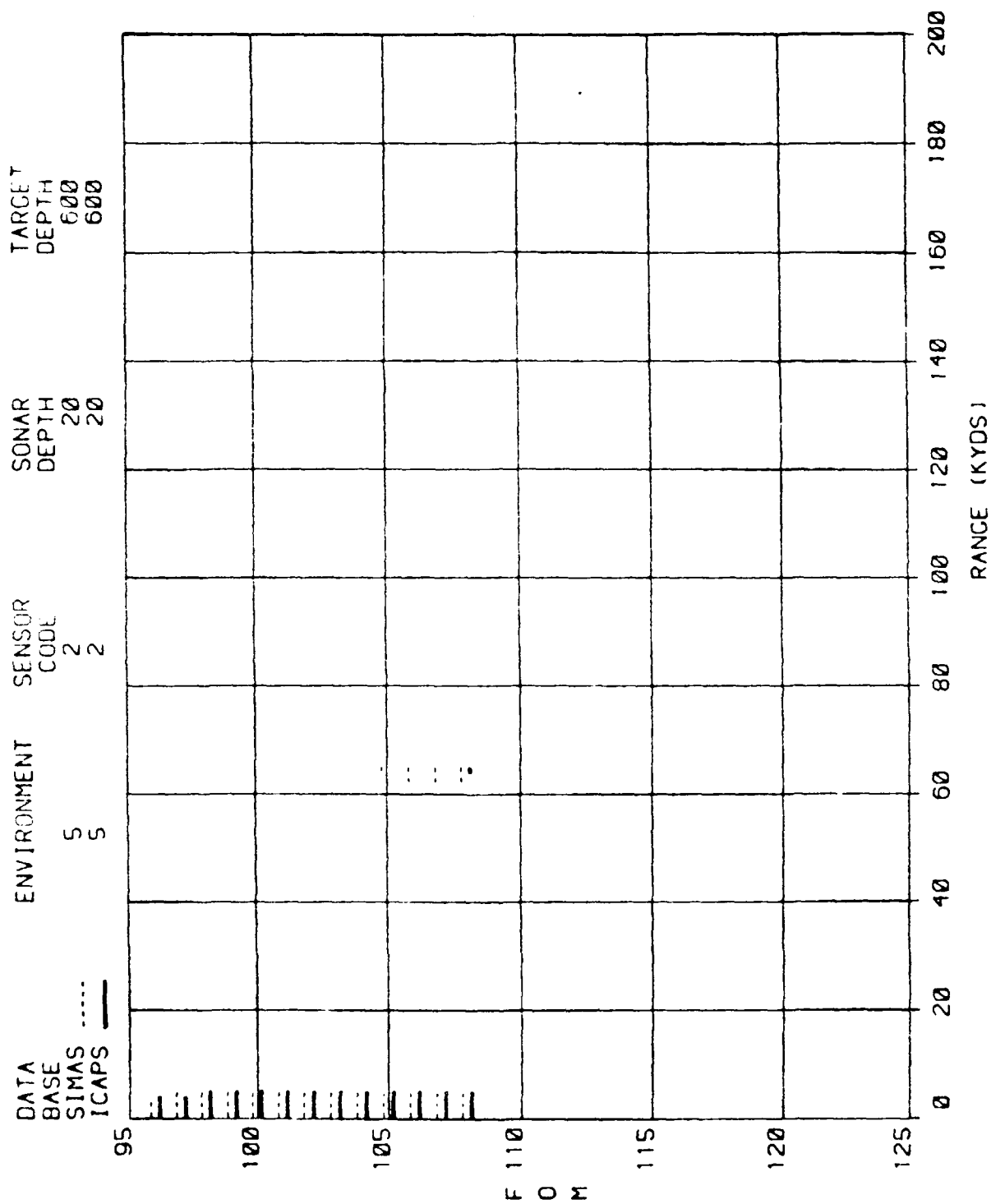












AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/6 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
NORDA-TN-73-VOL-2

UNCLASSIFIED

NL

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

4 - 7

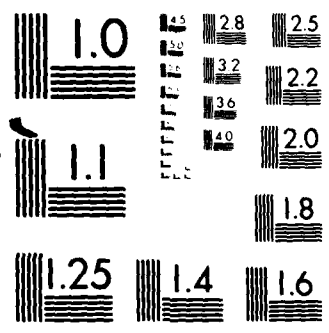
4 - 7

4 - 7

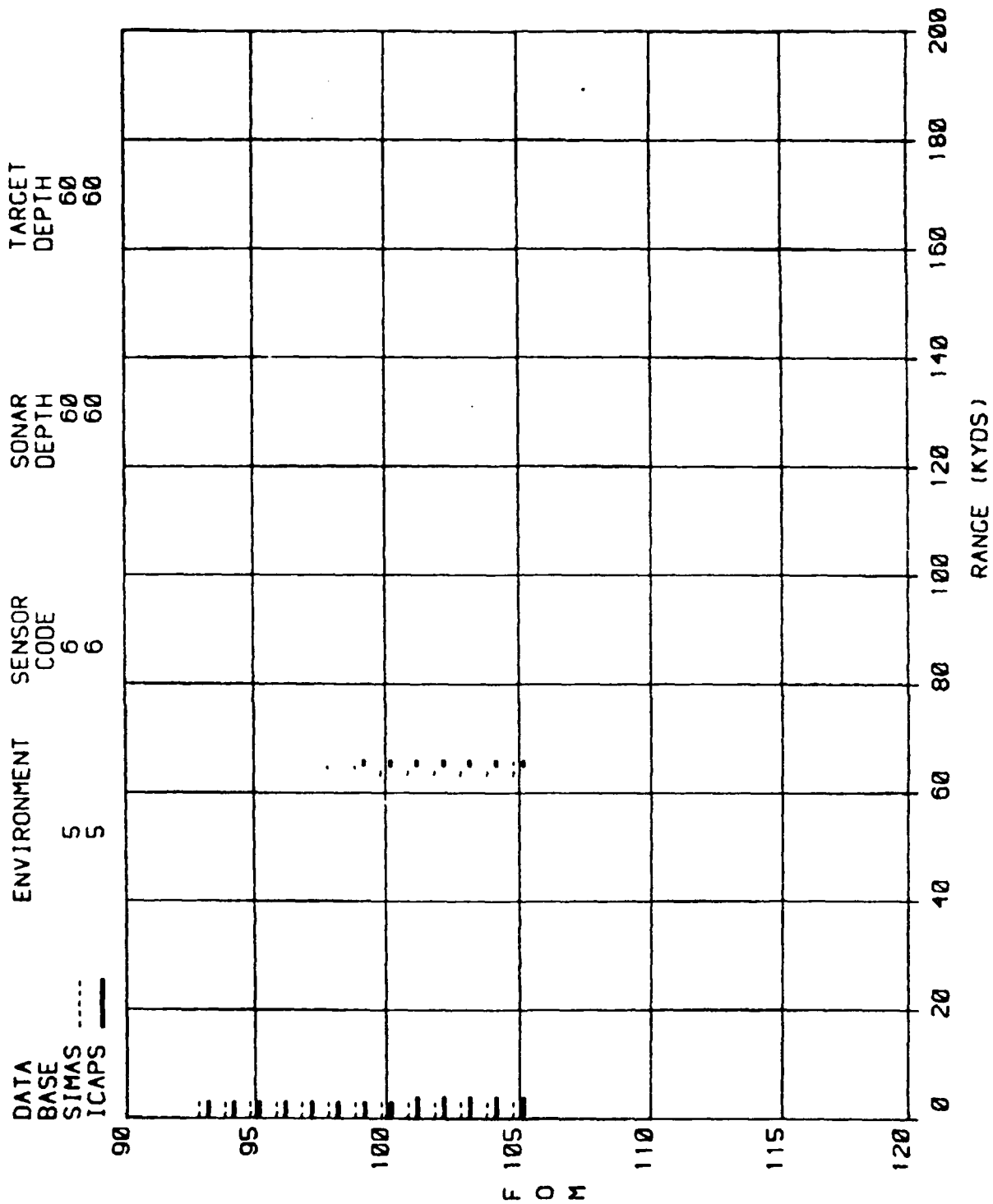
4 - 7

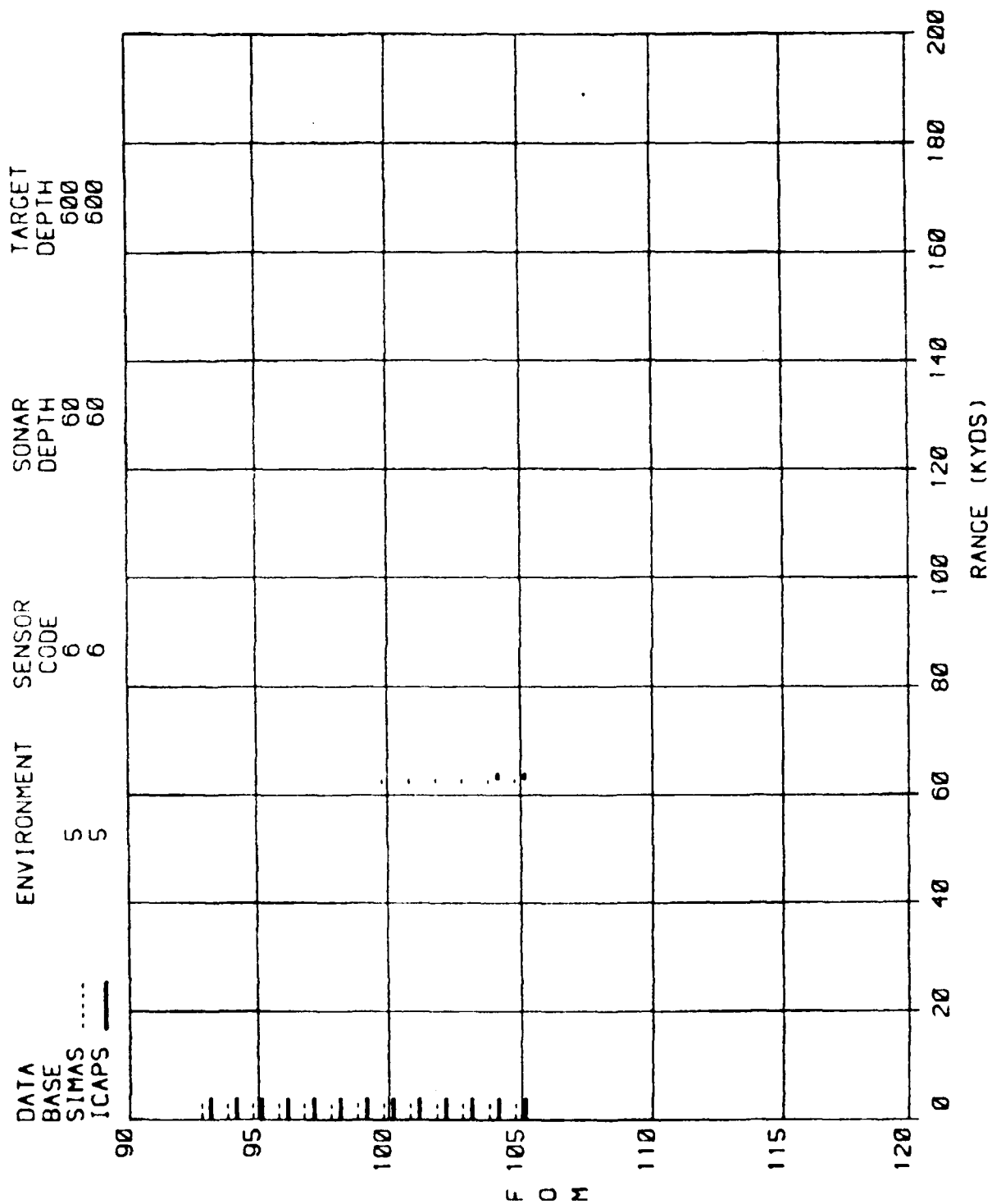
4 - 7

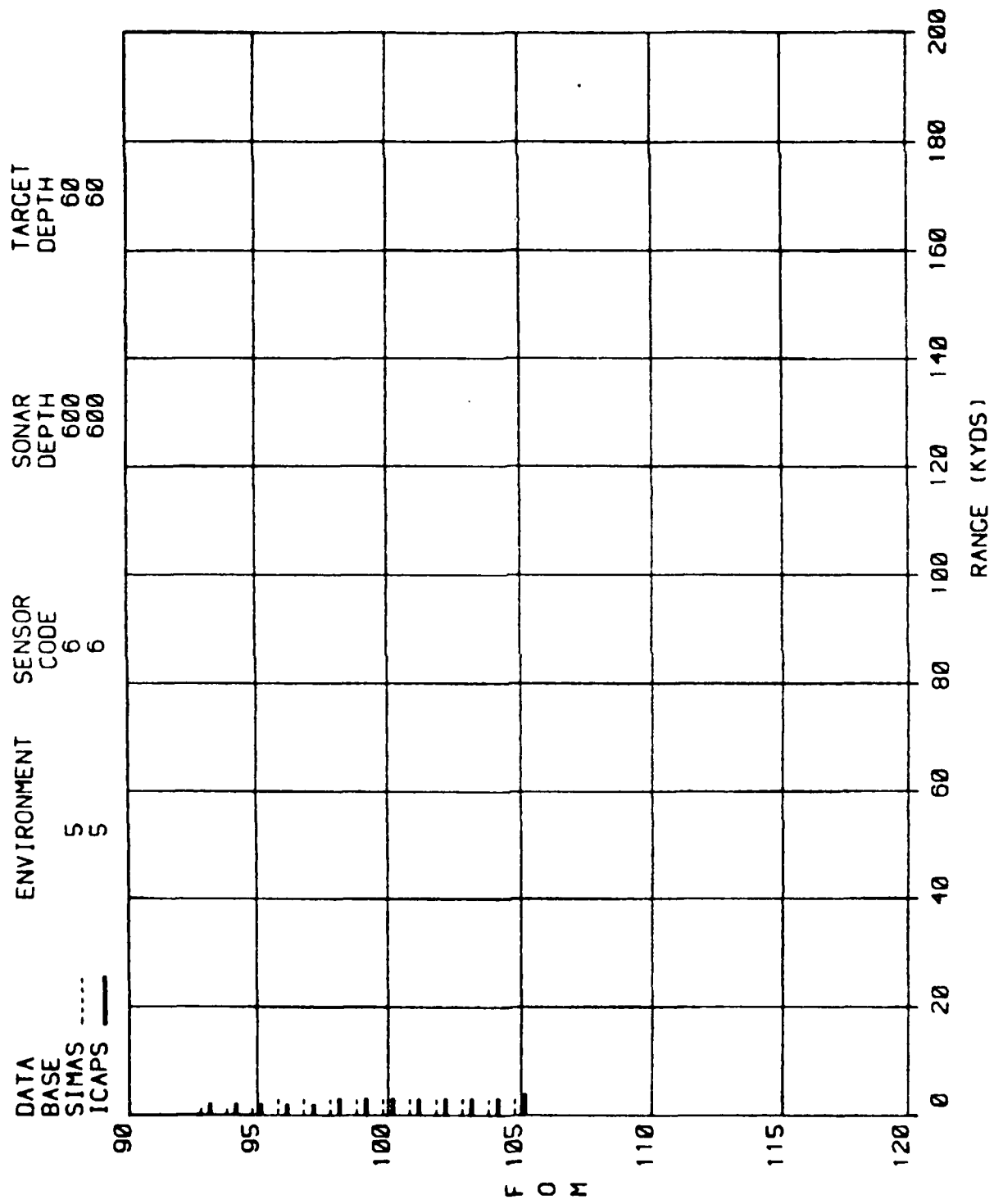
4 - 7

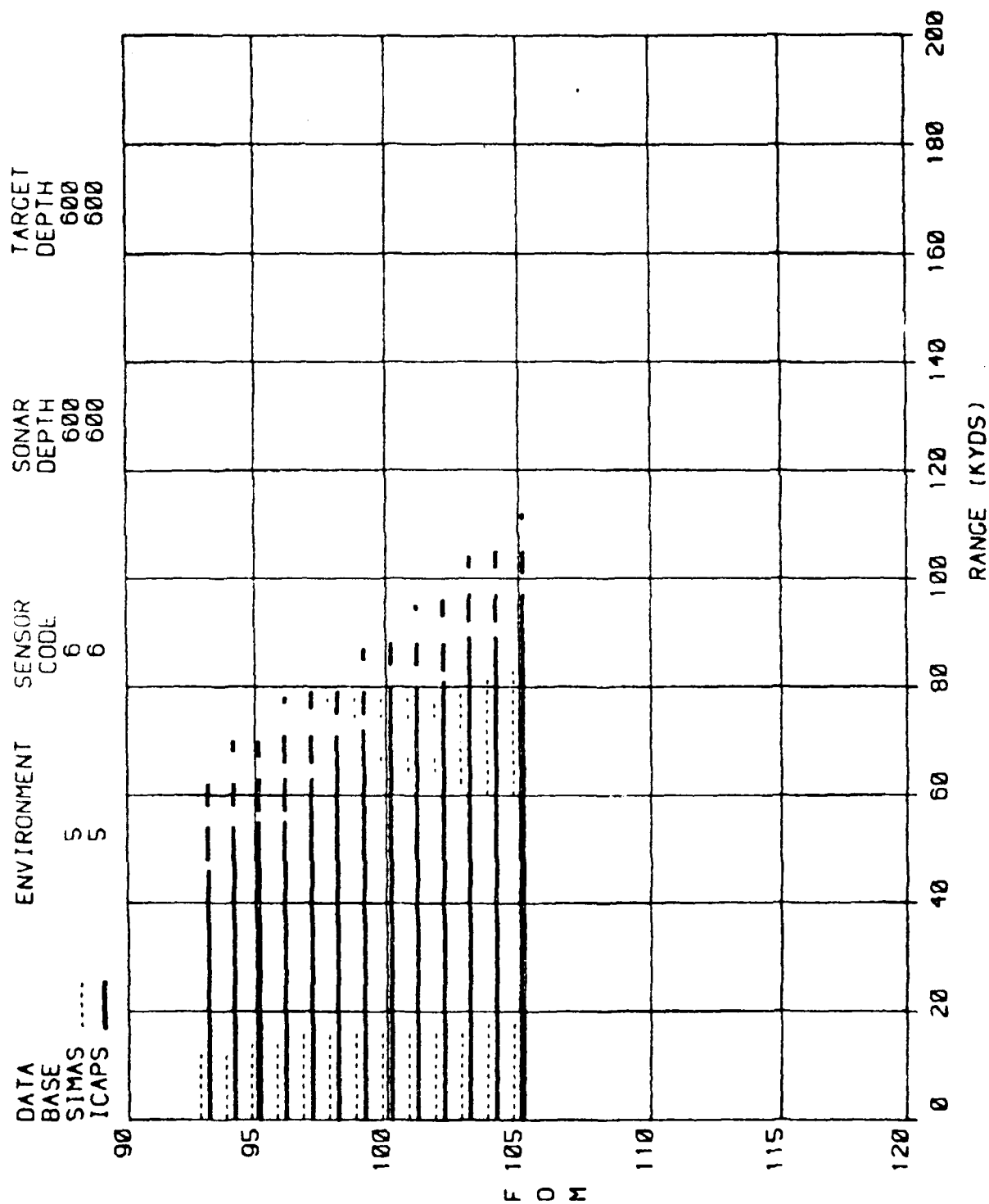


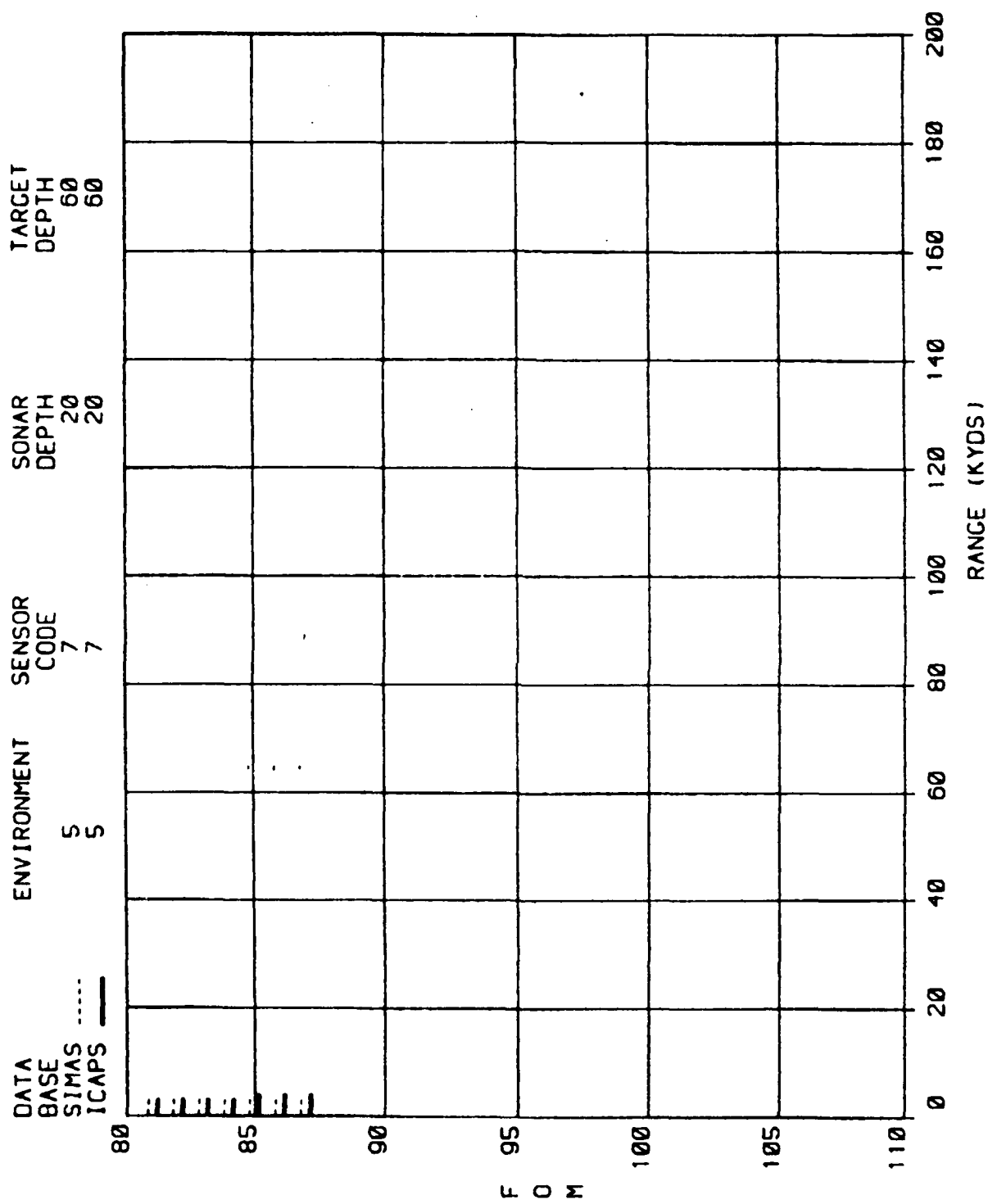
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

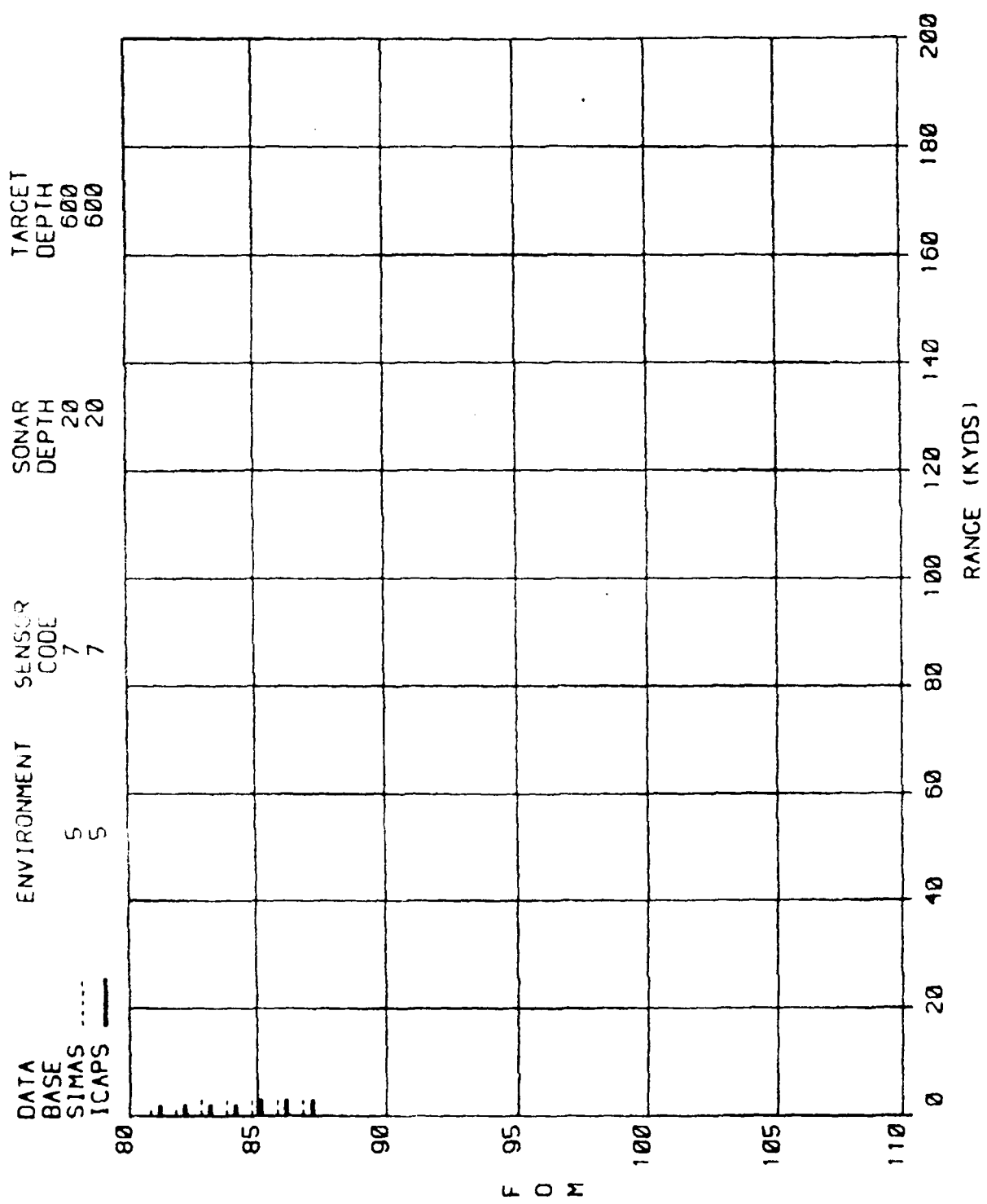


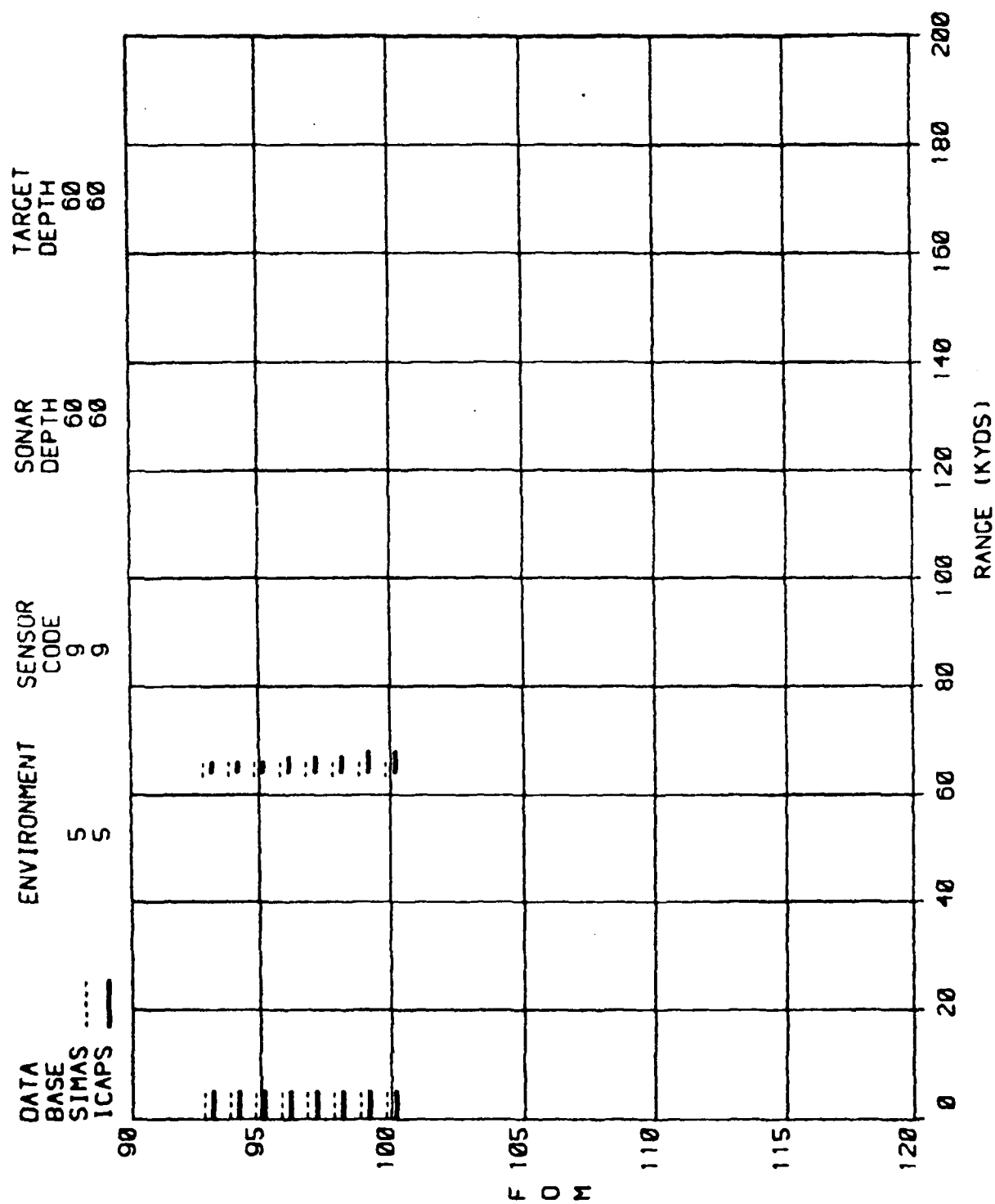


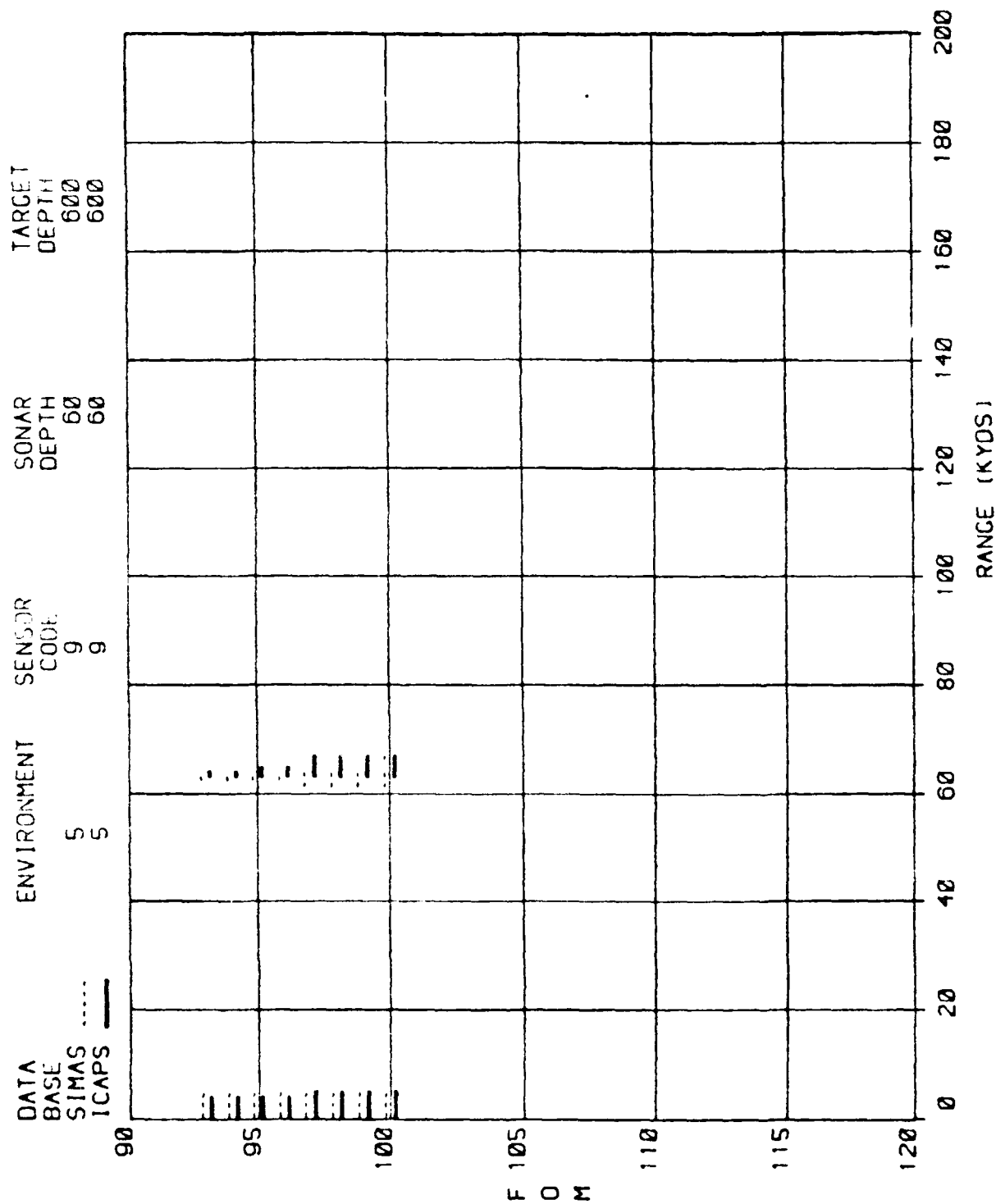


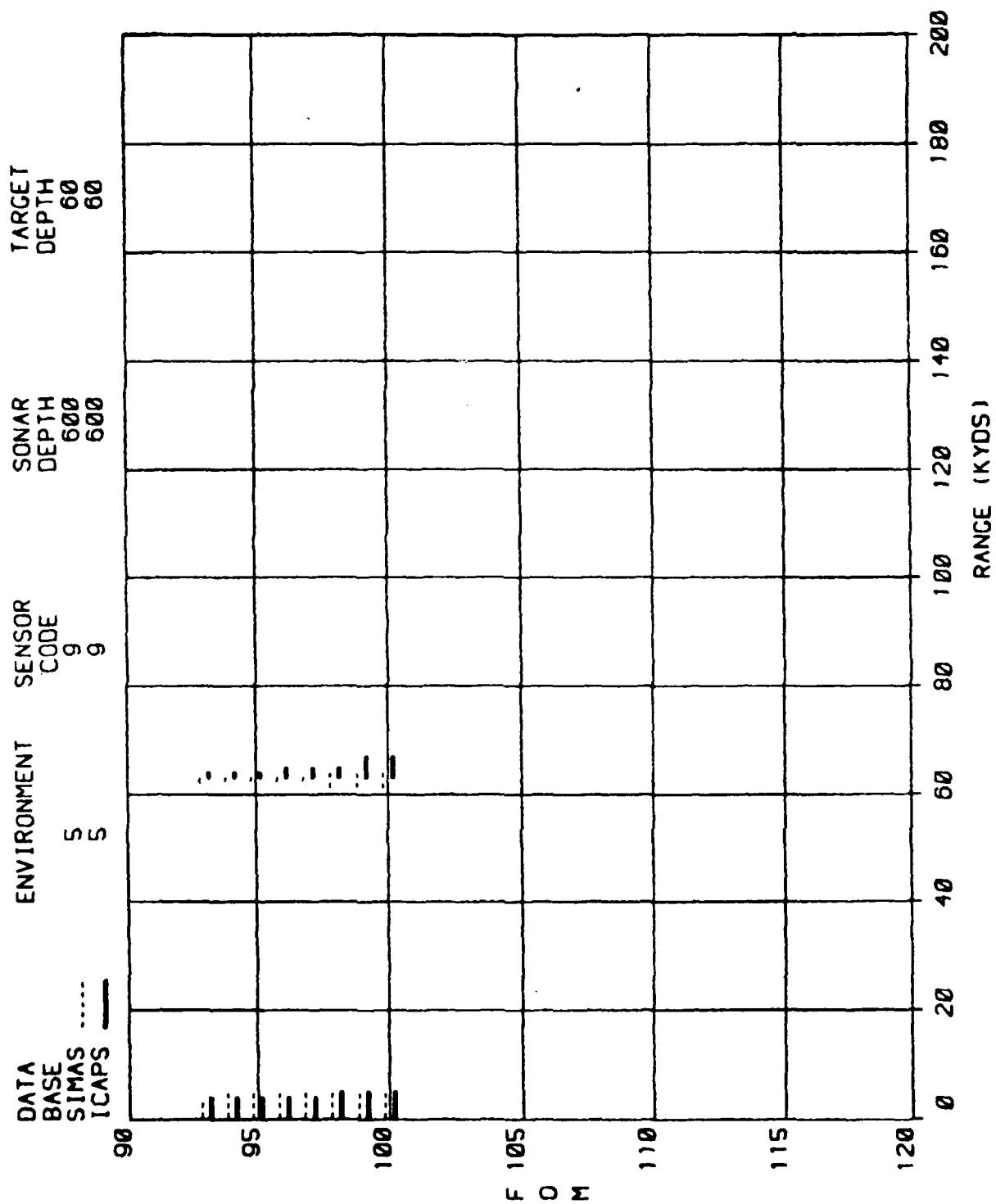


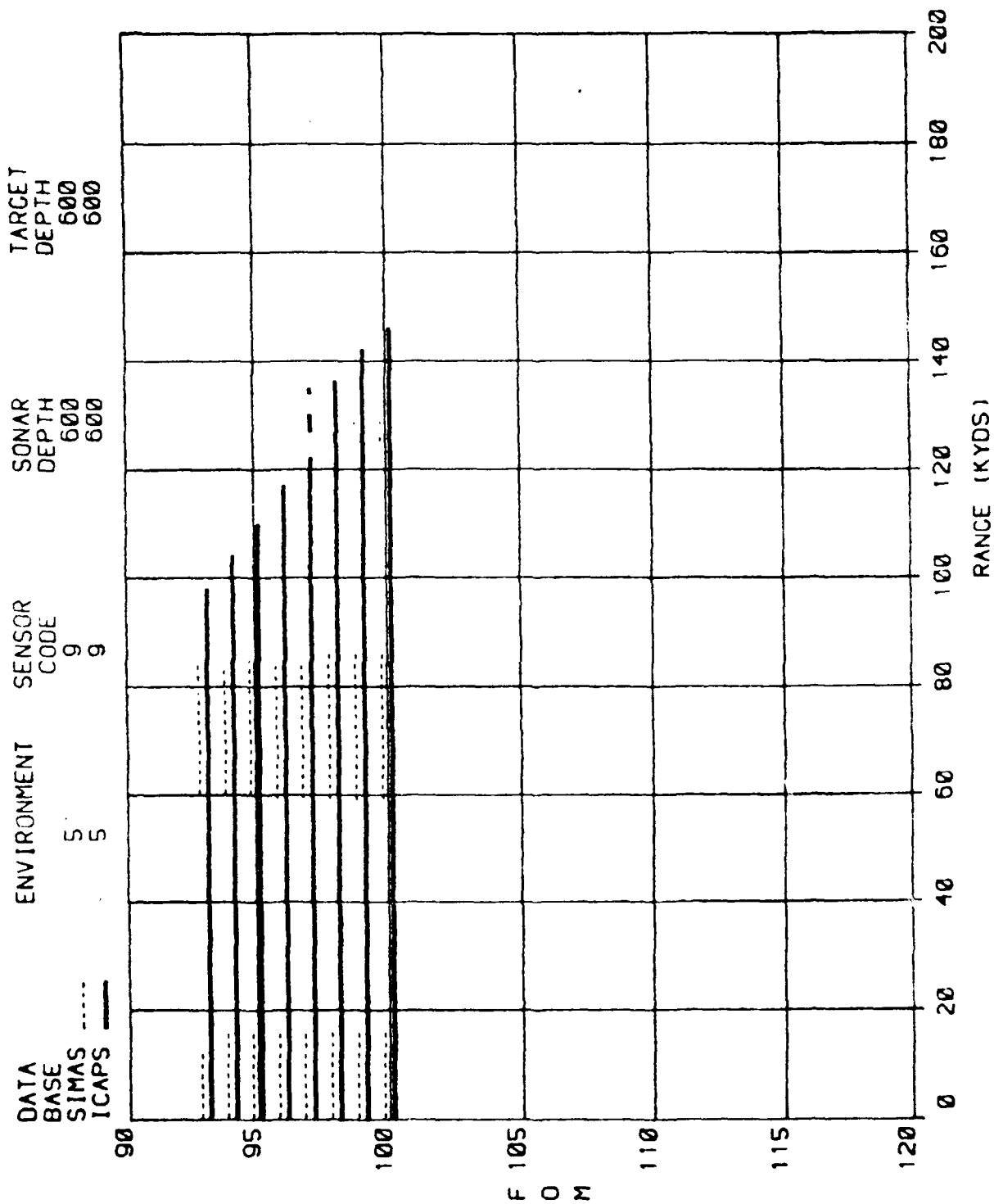


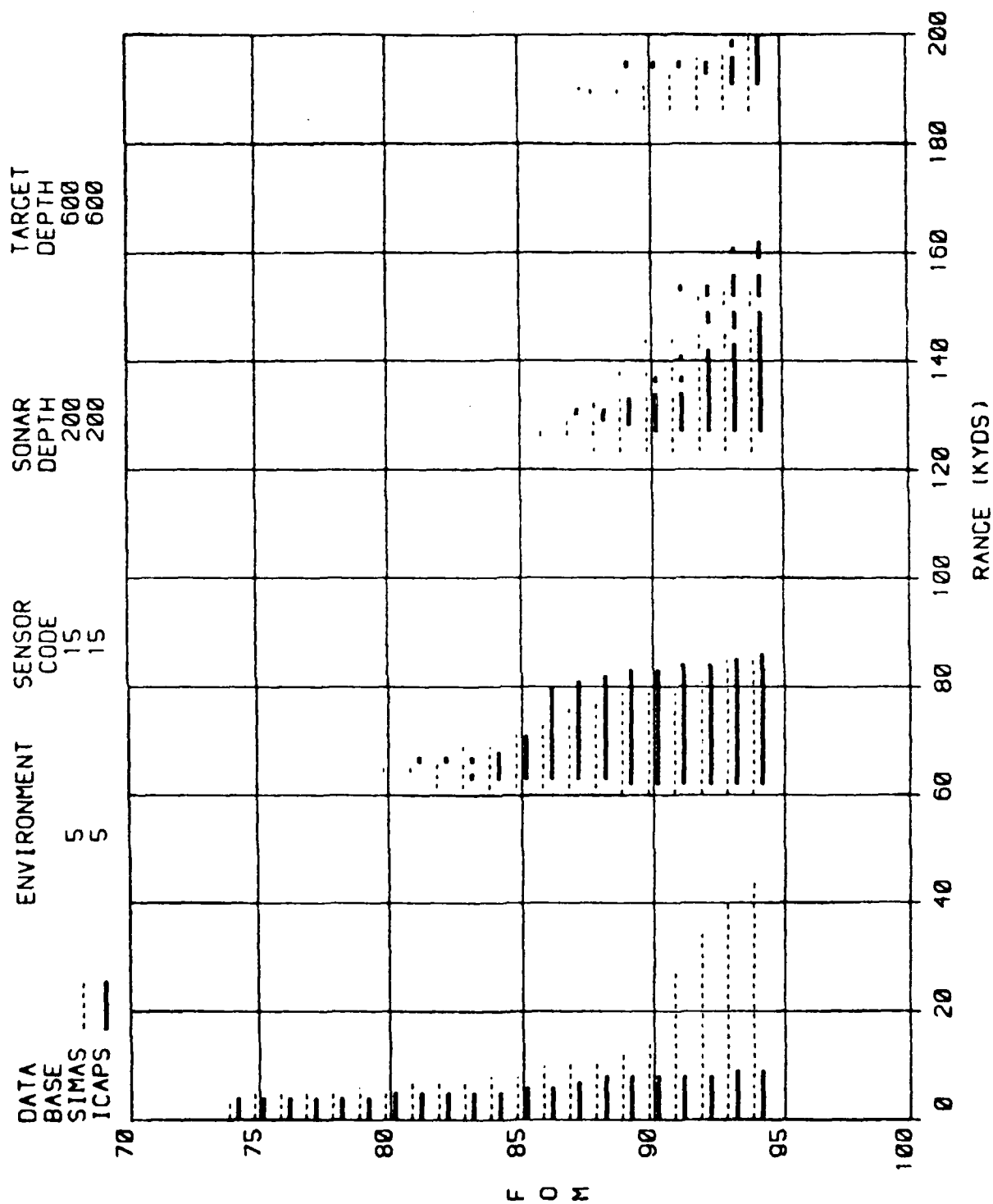


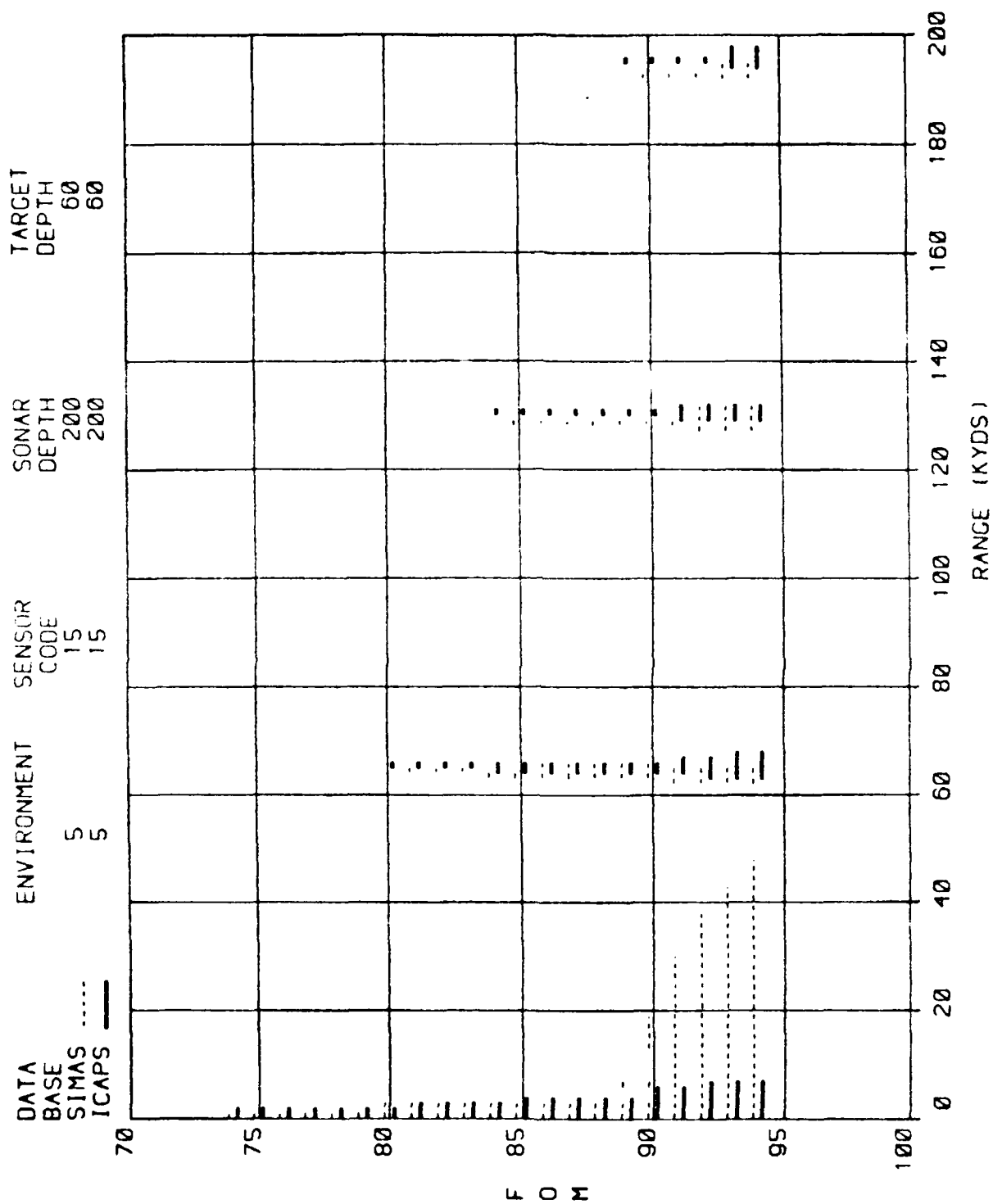


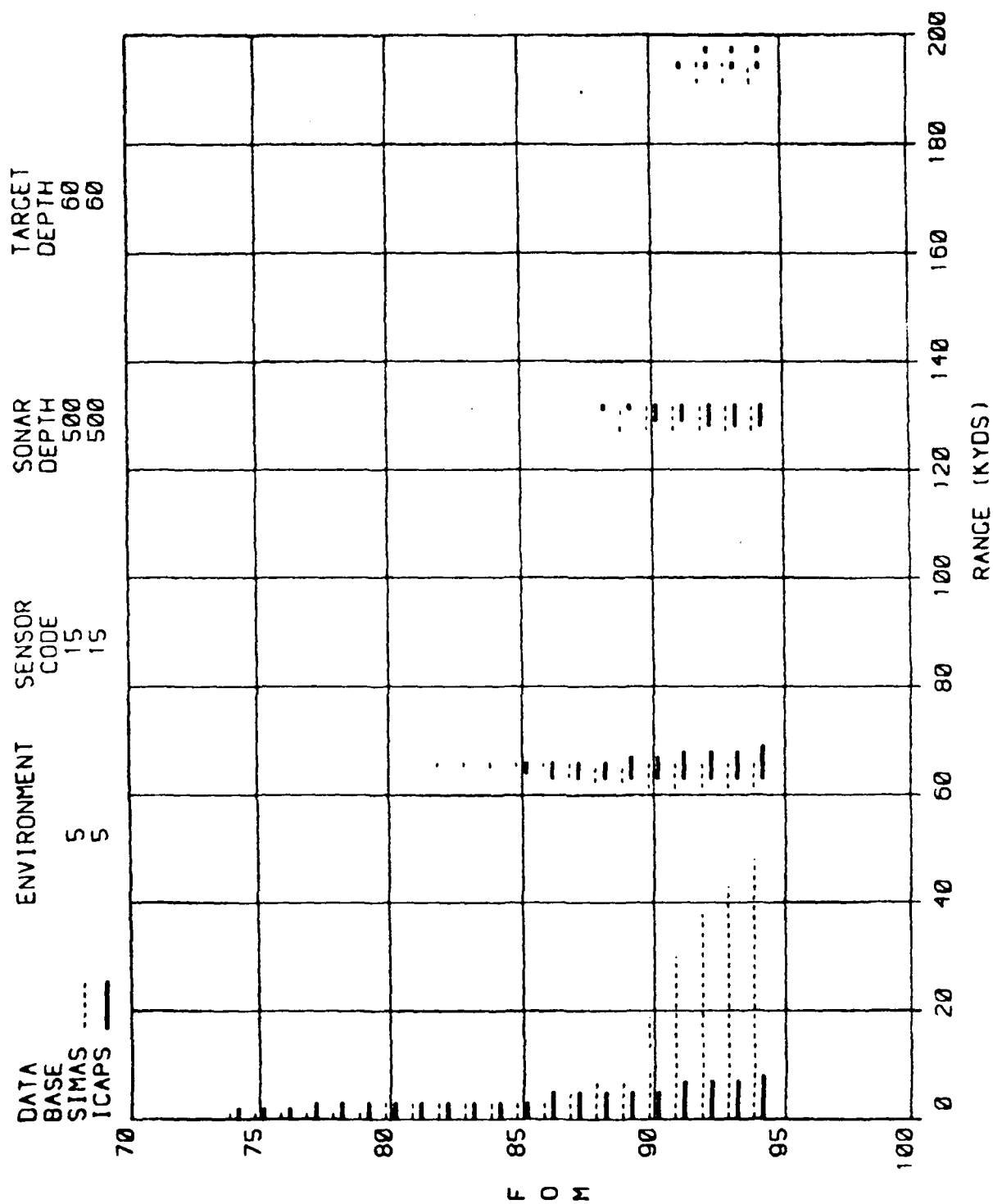


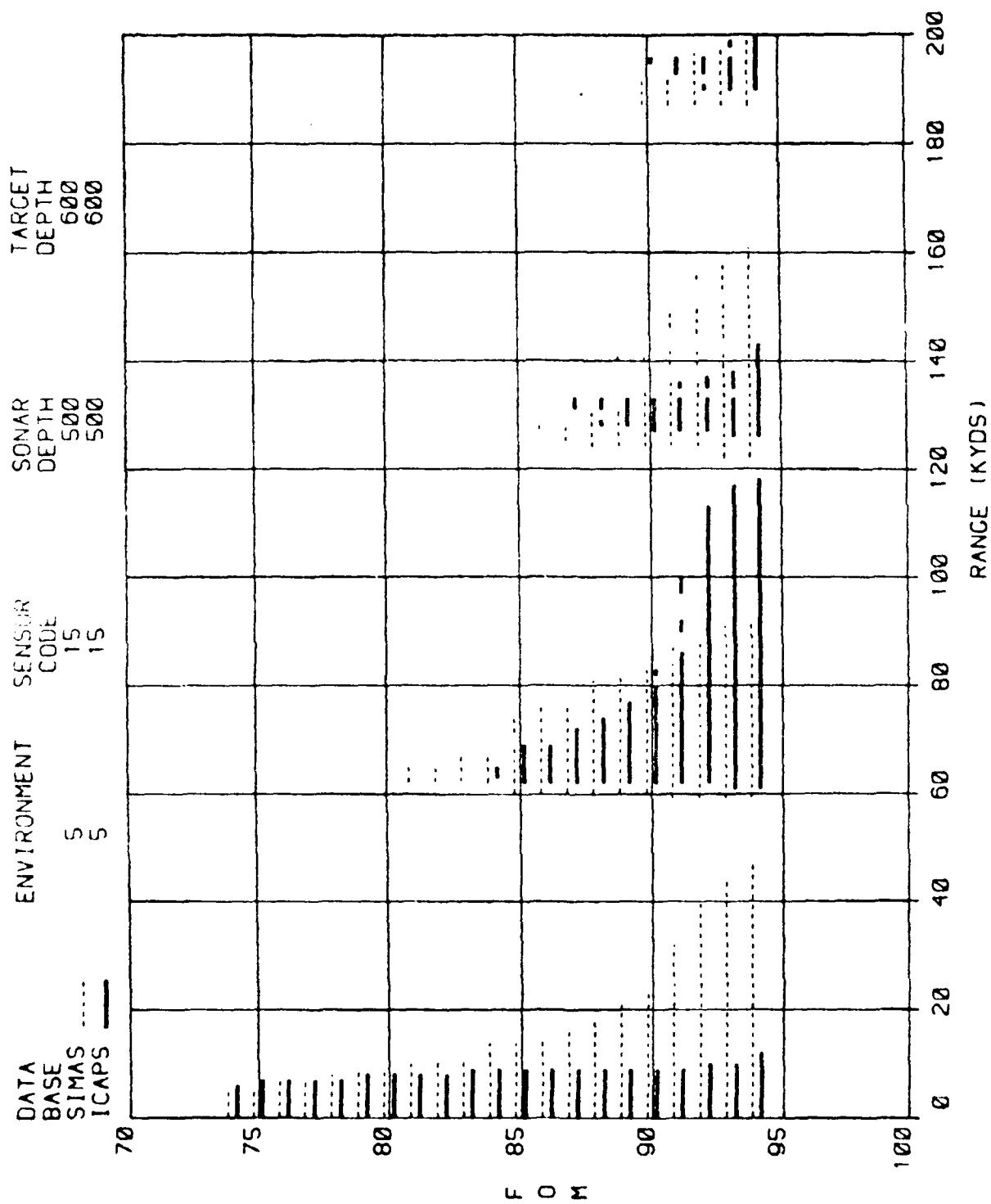


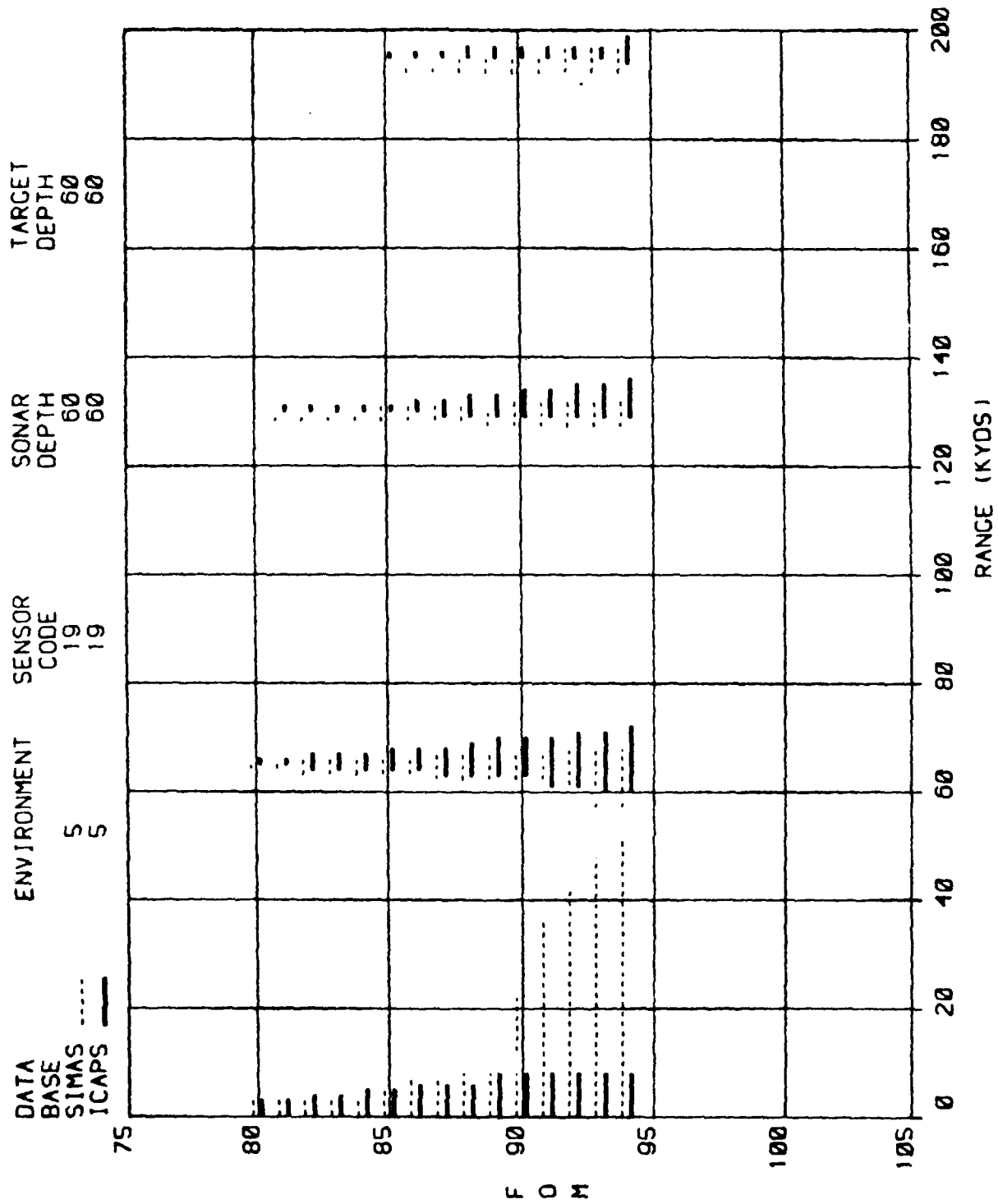


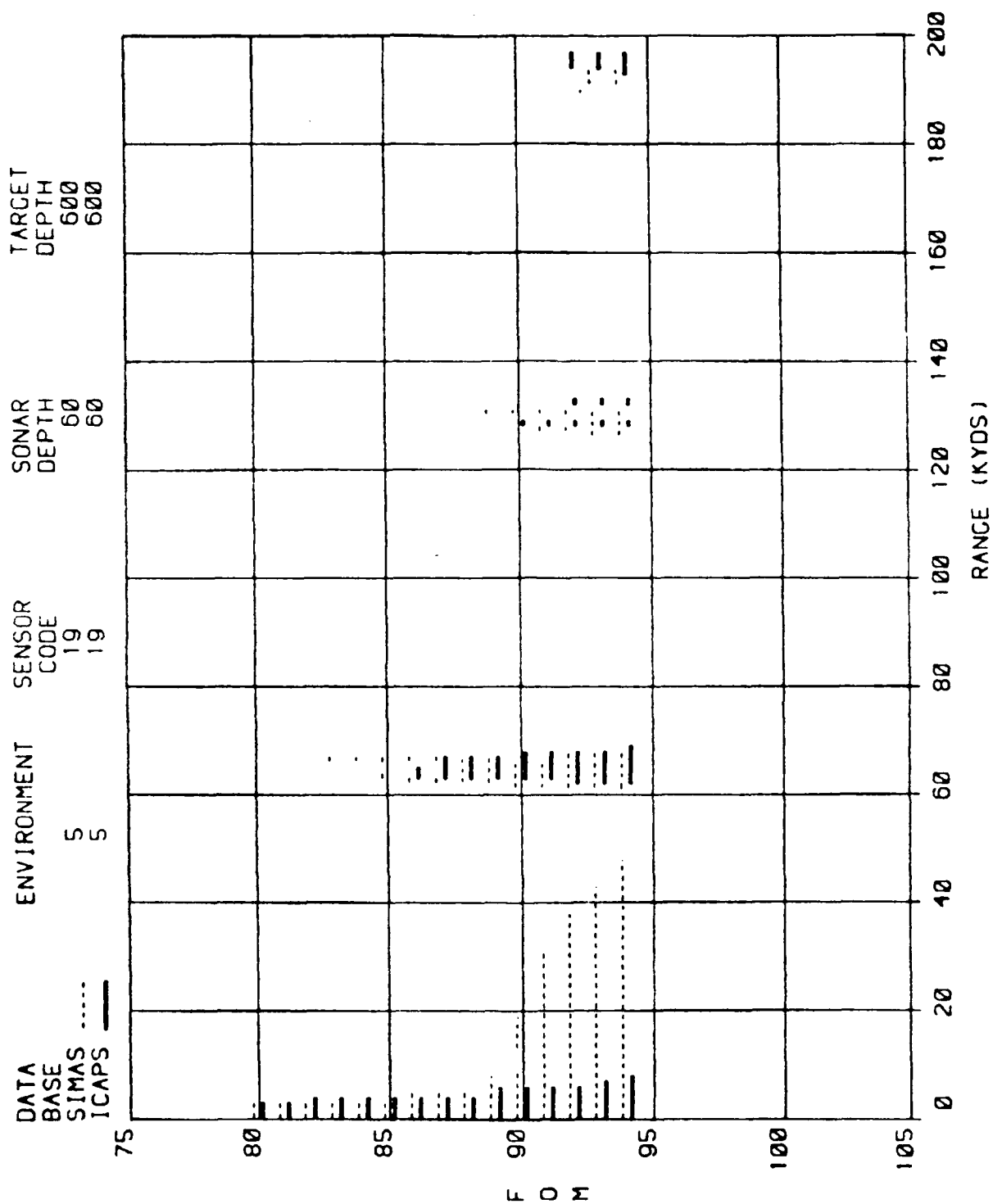


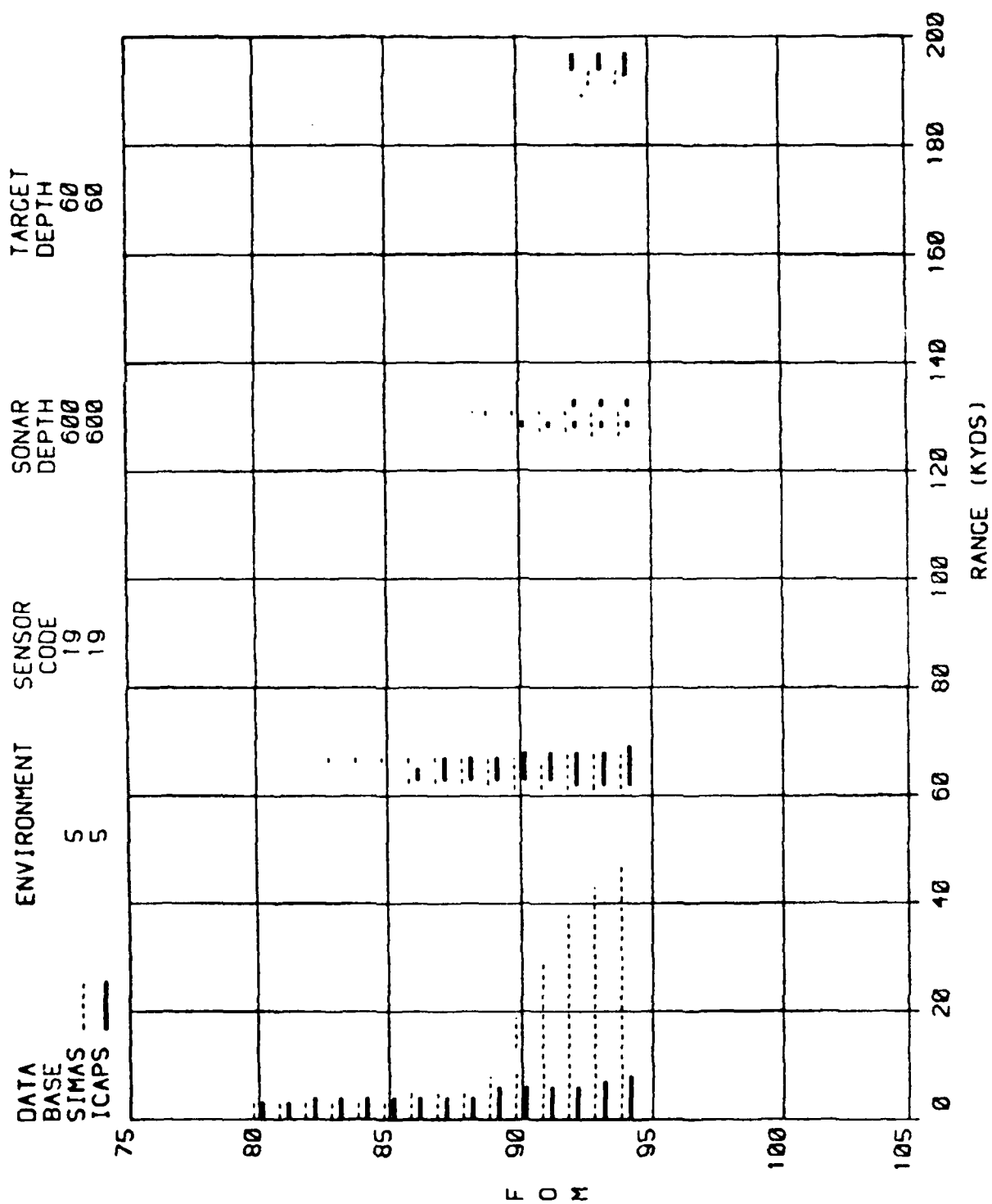


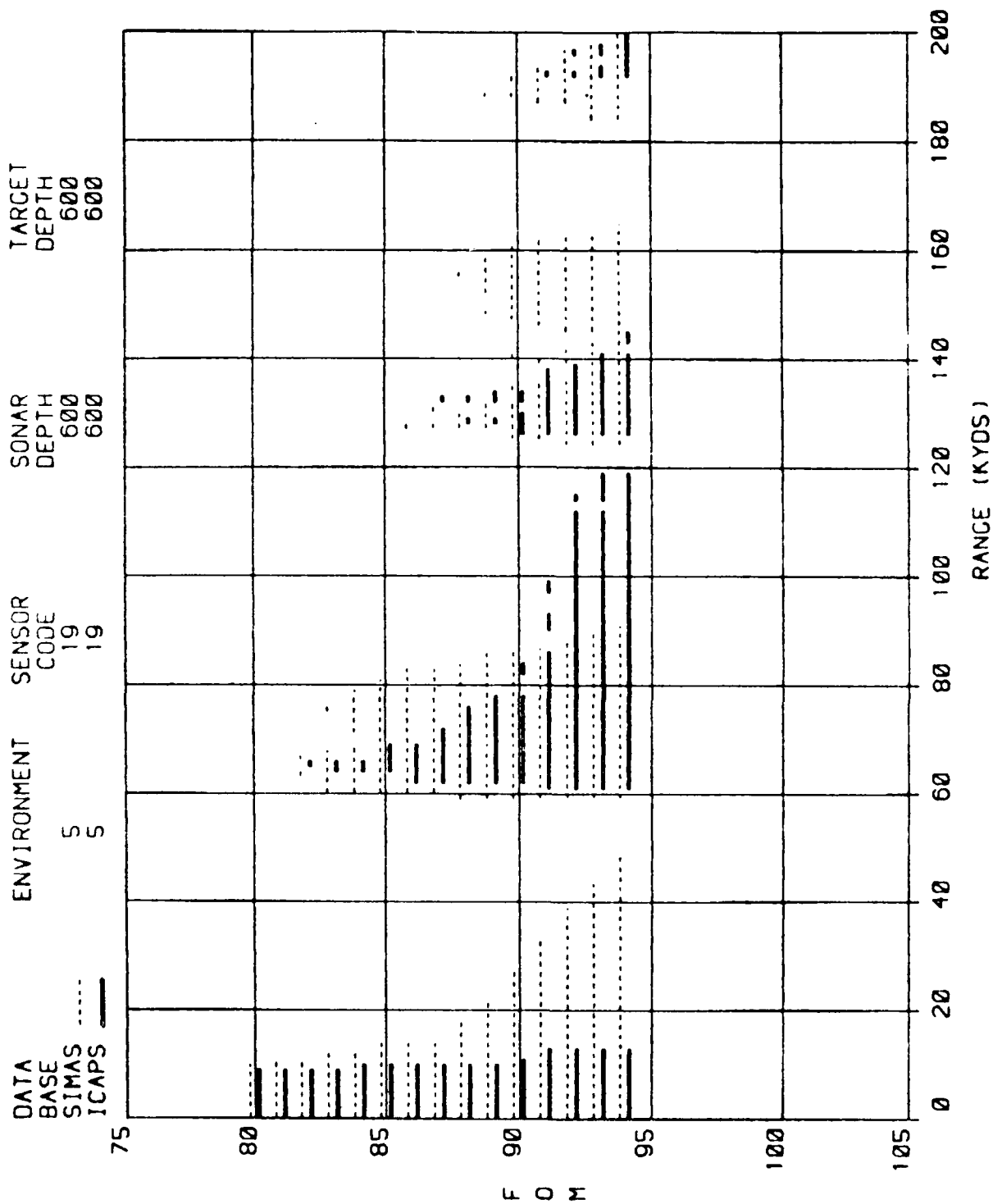


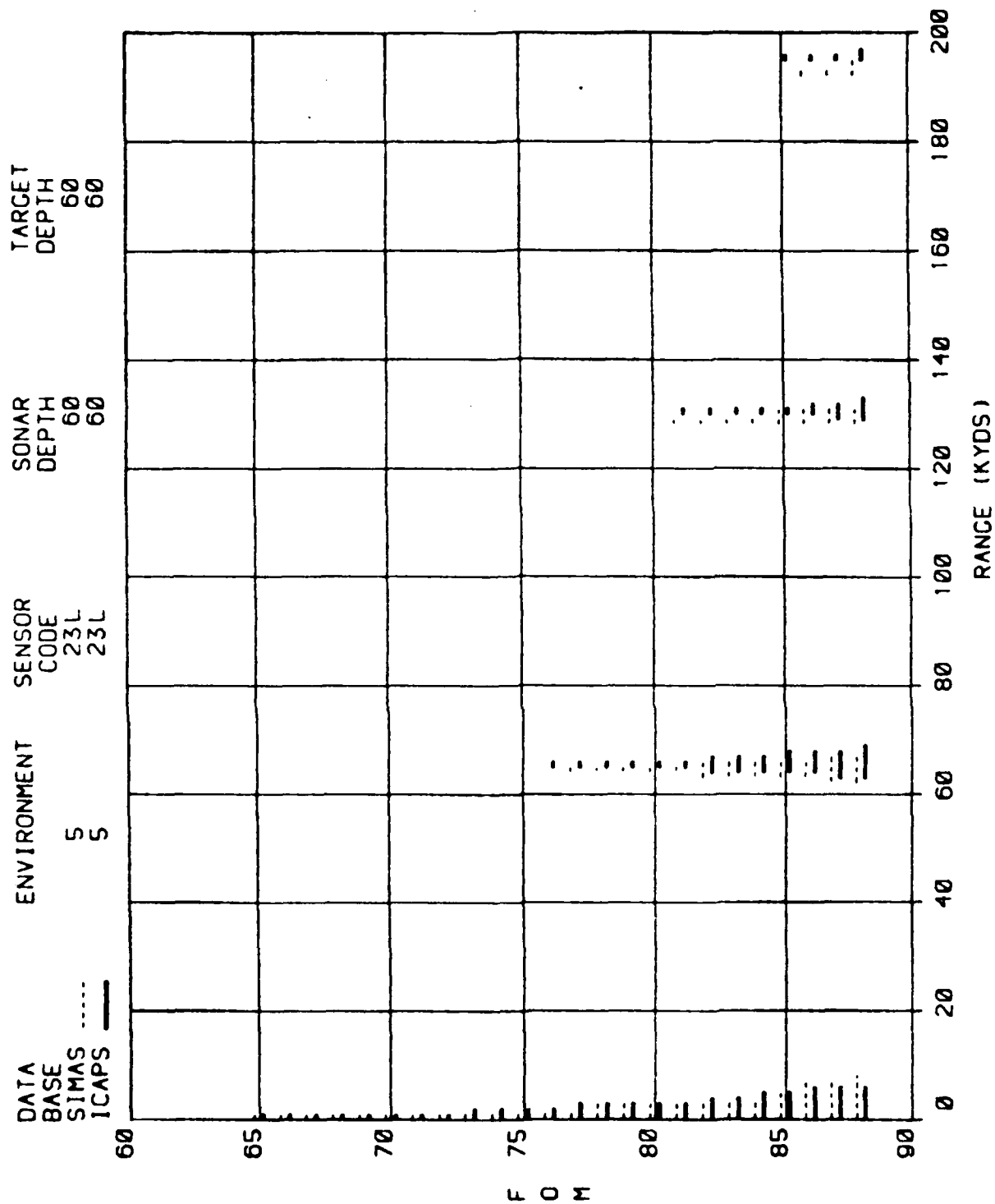


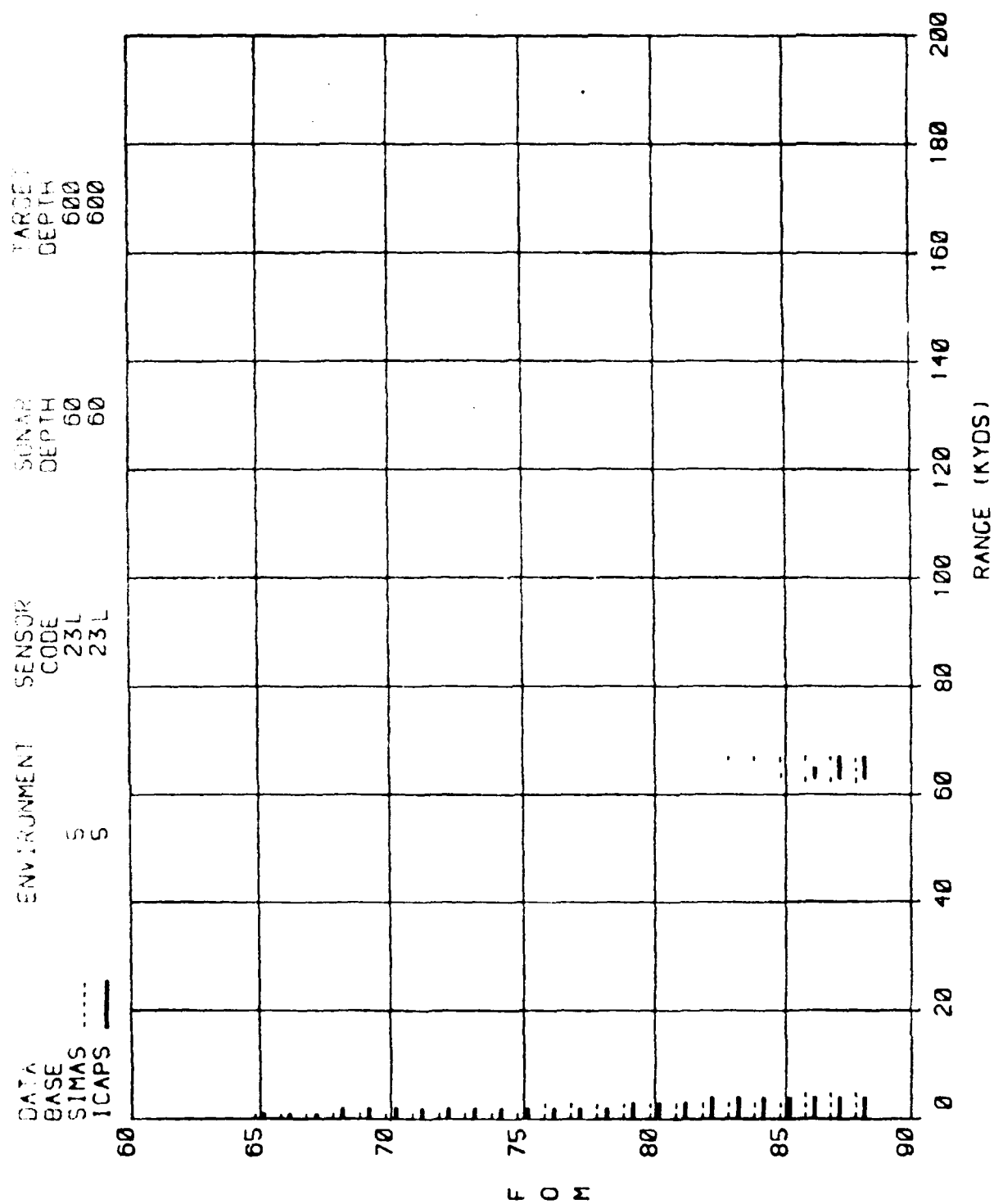


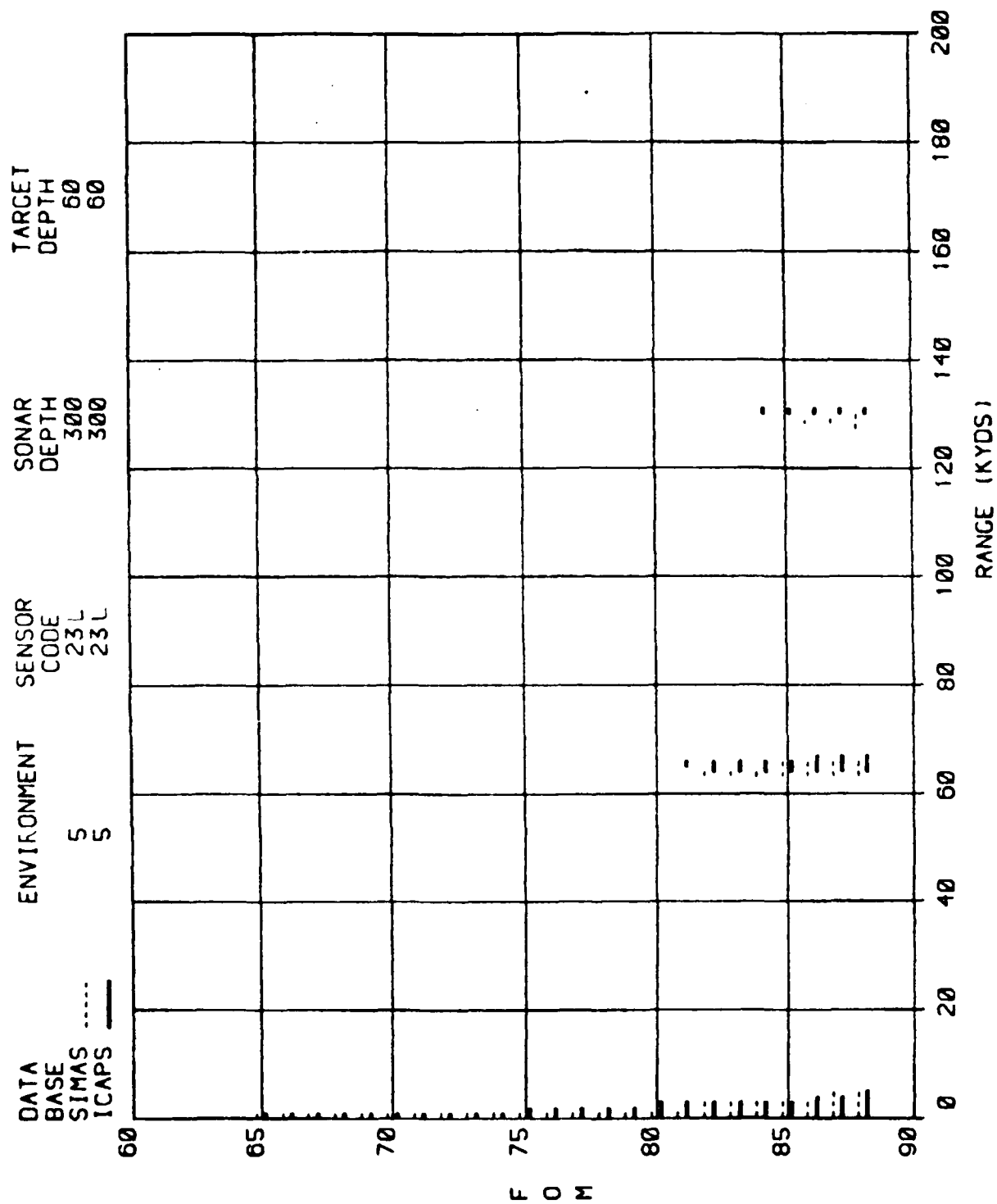


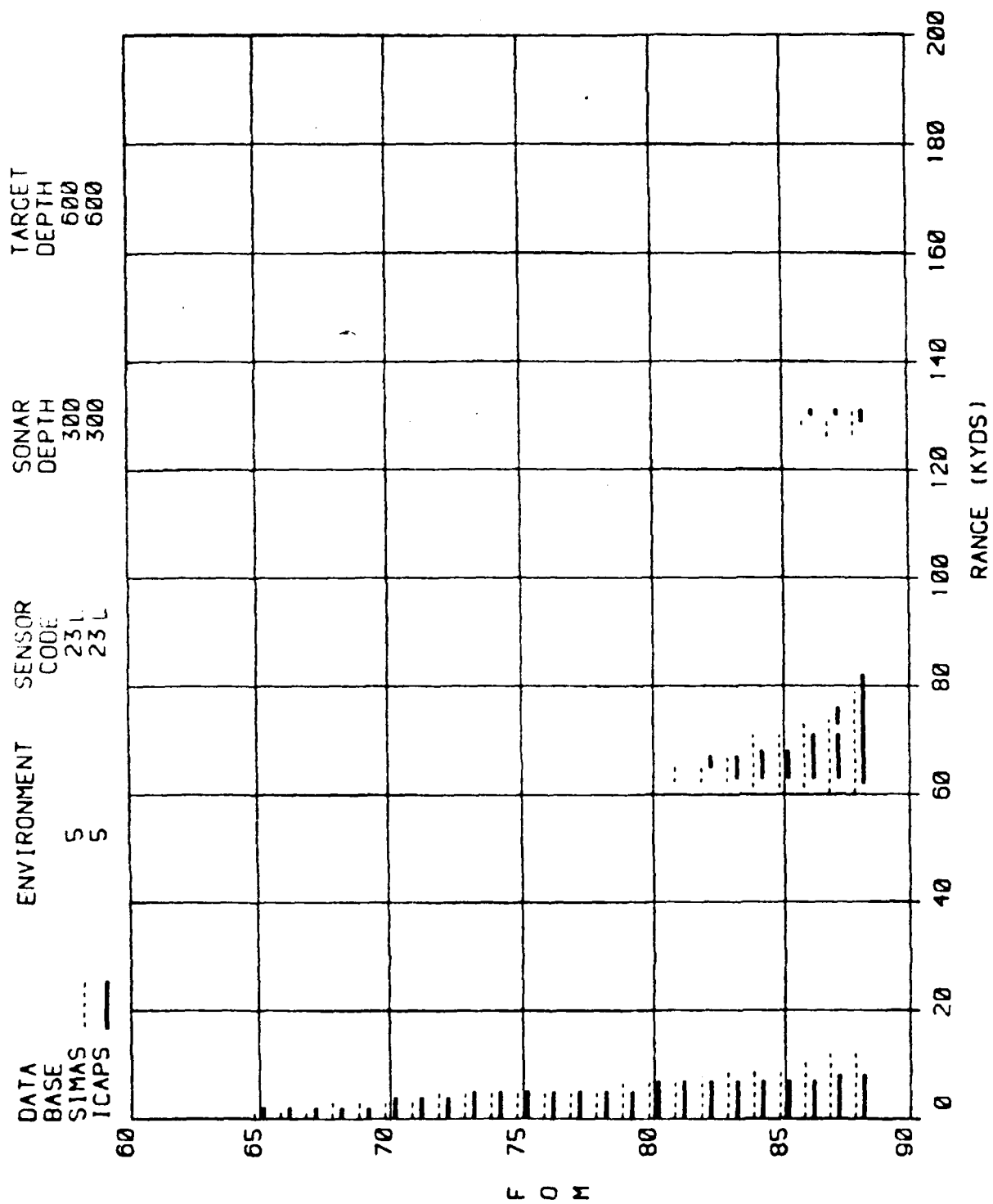


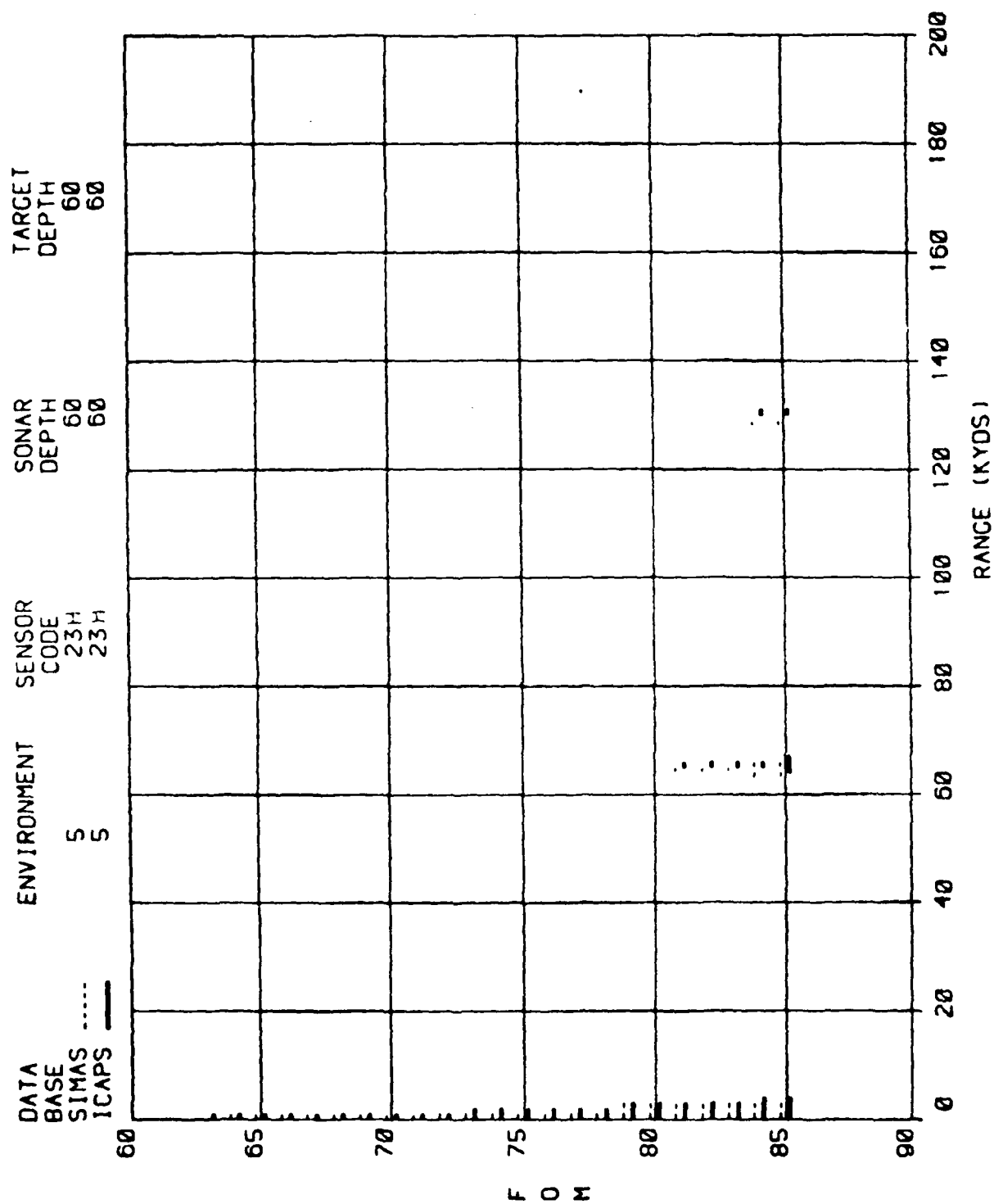


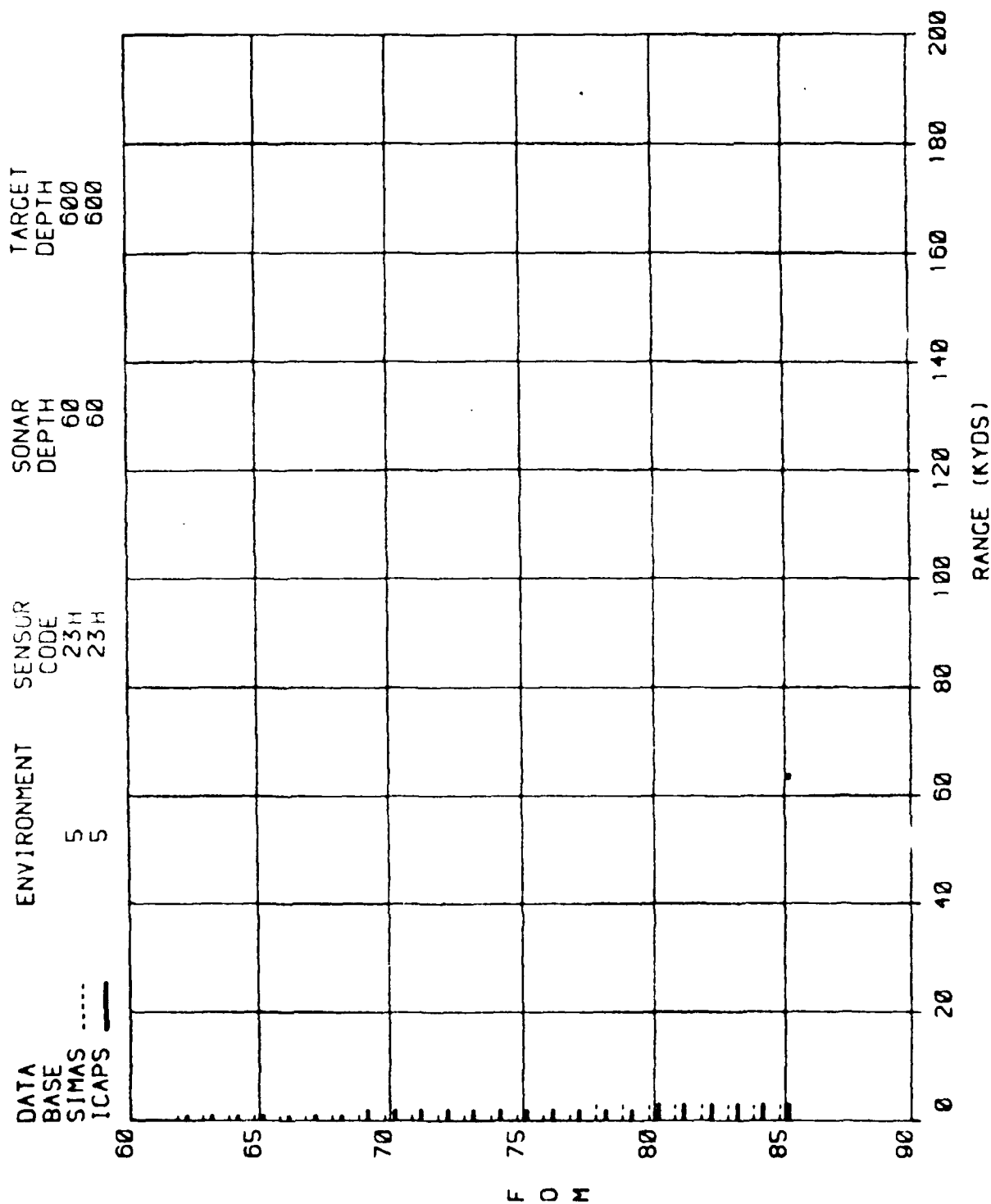


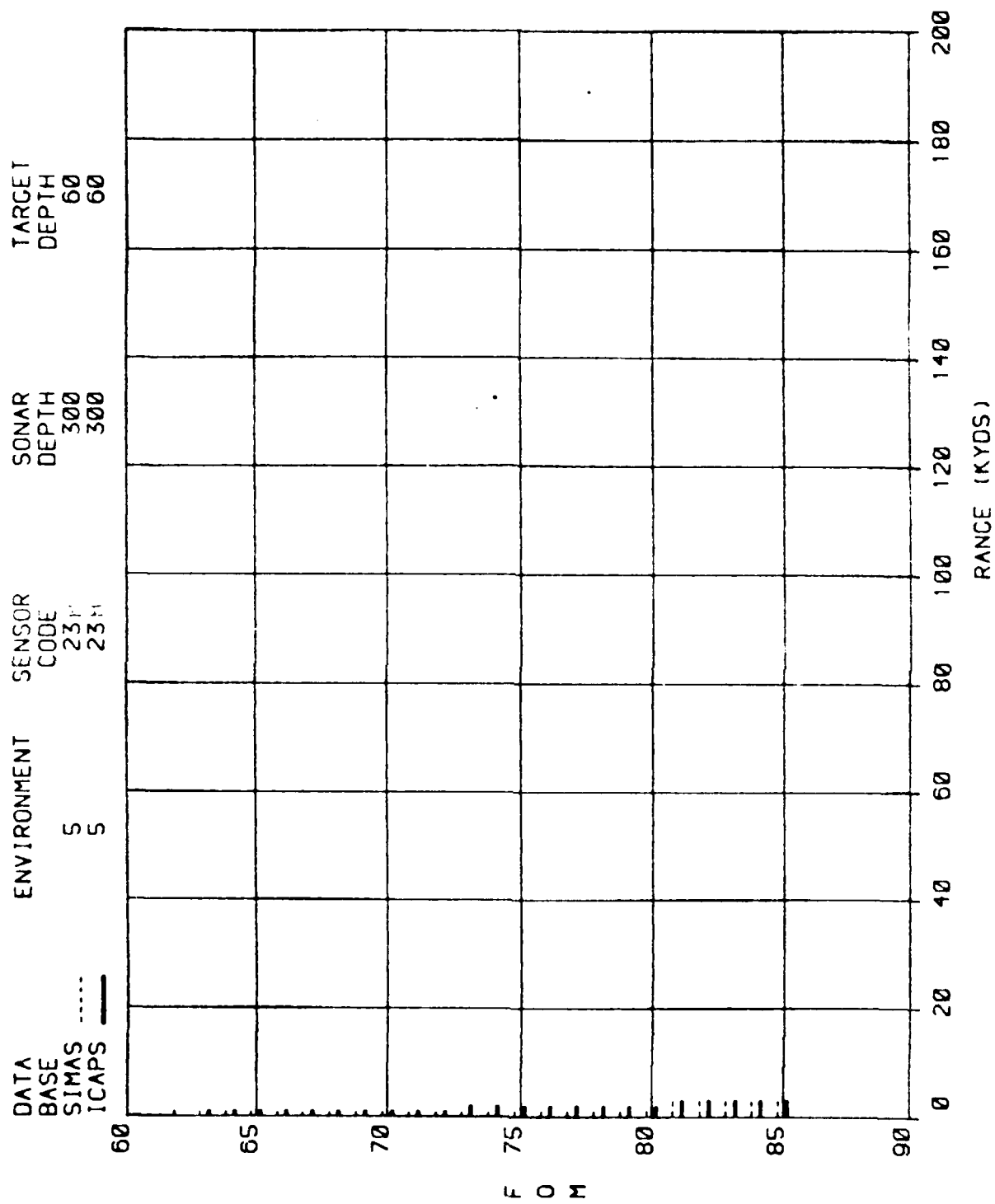


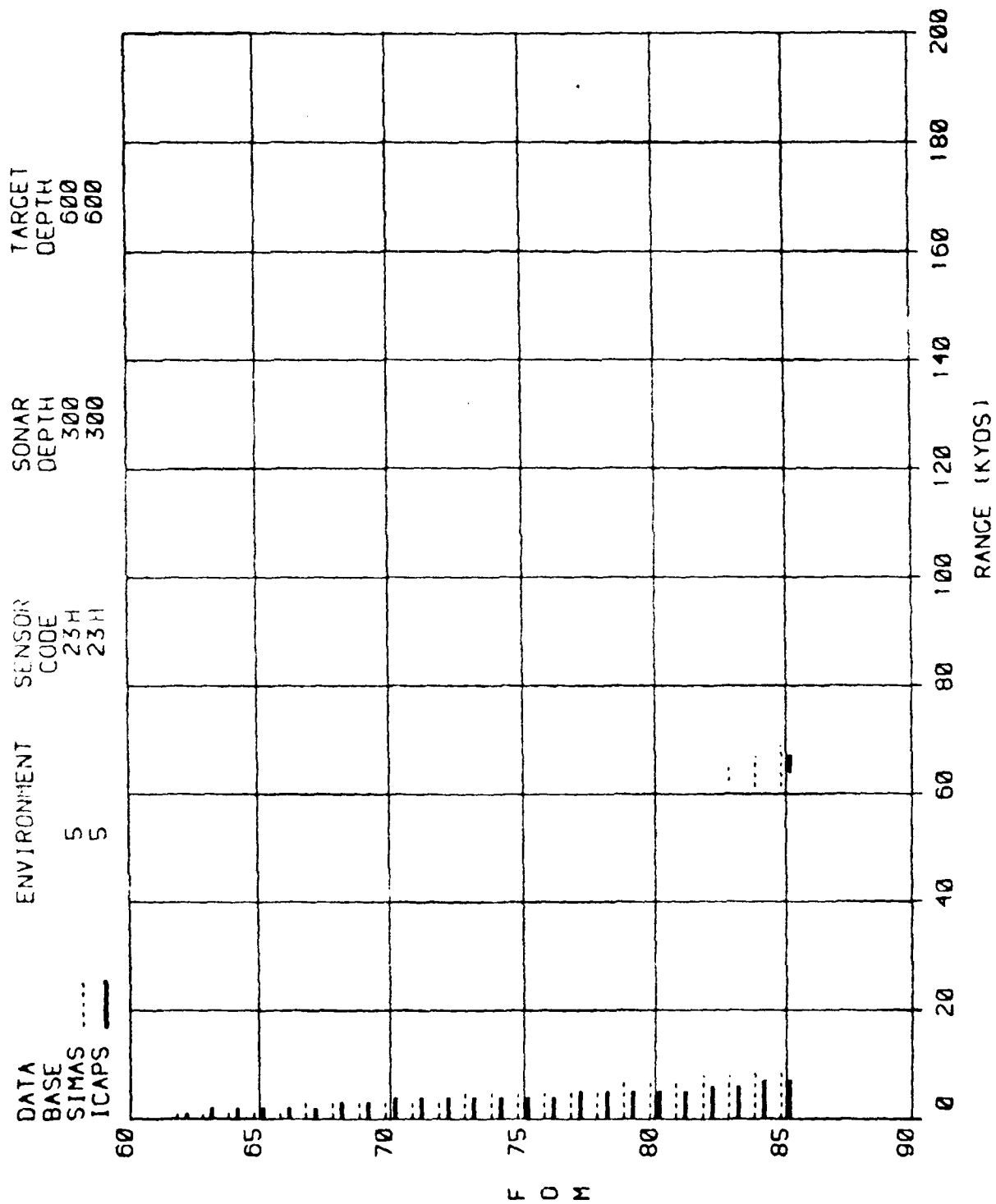


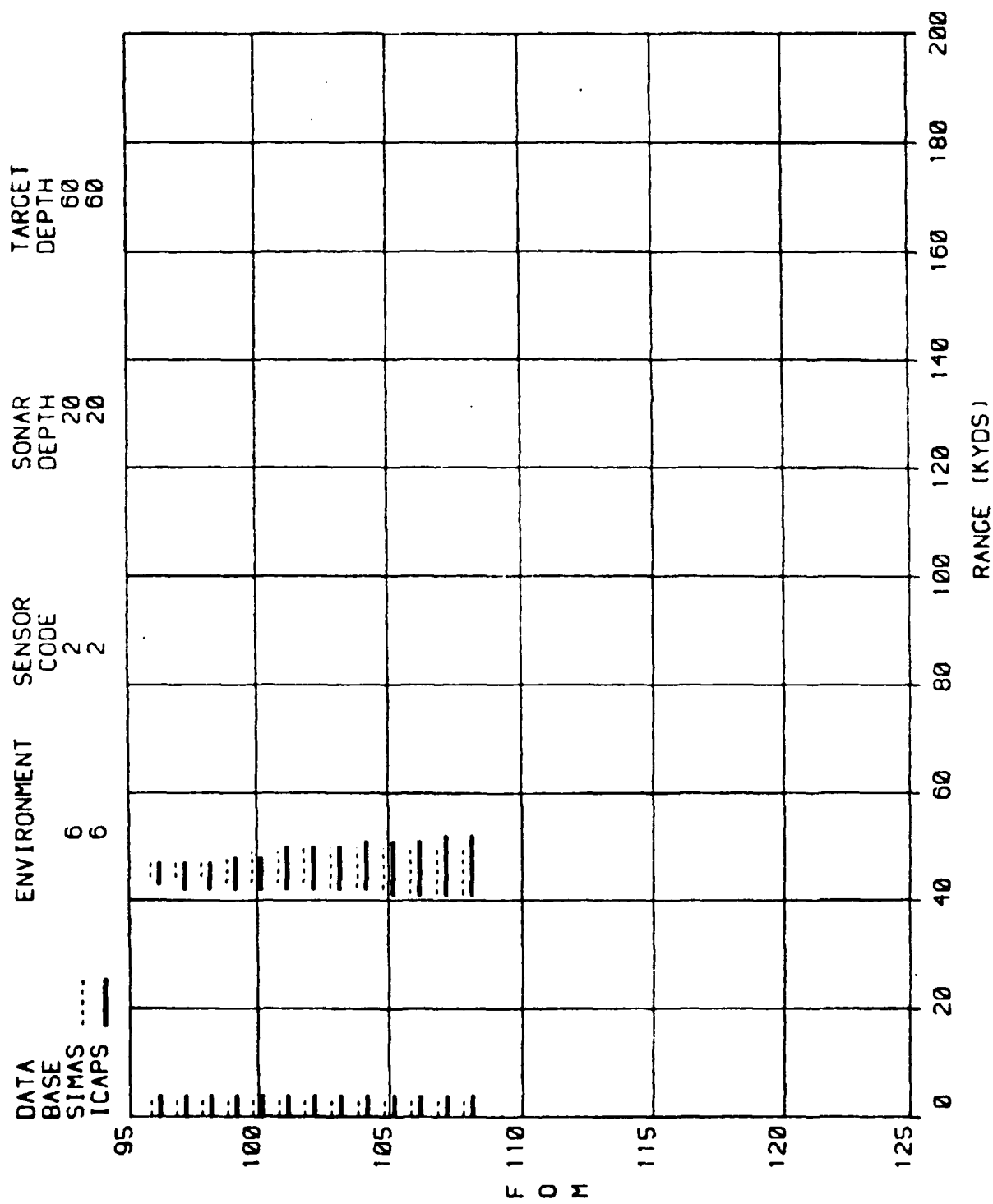


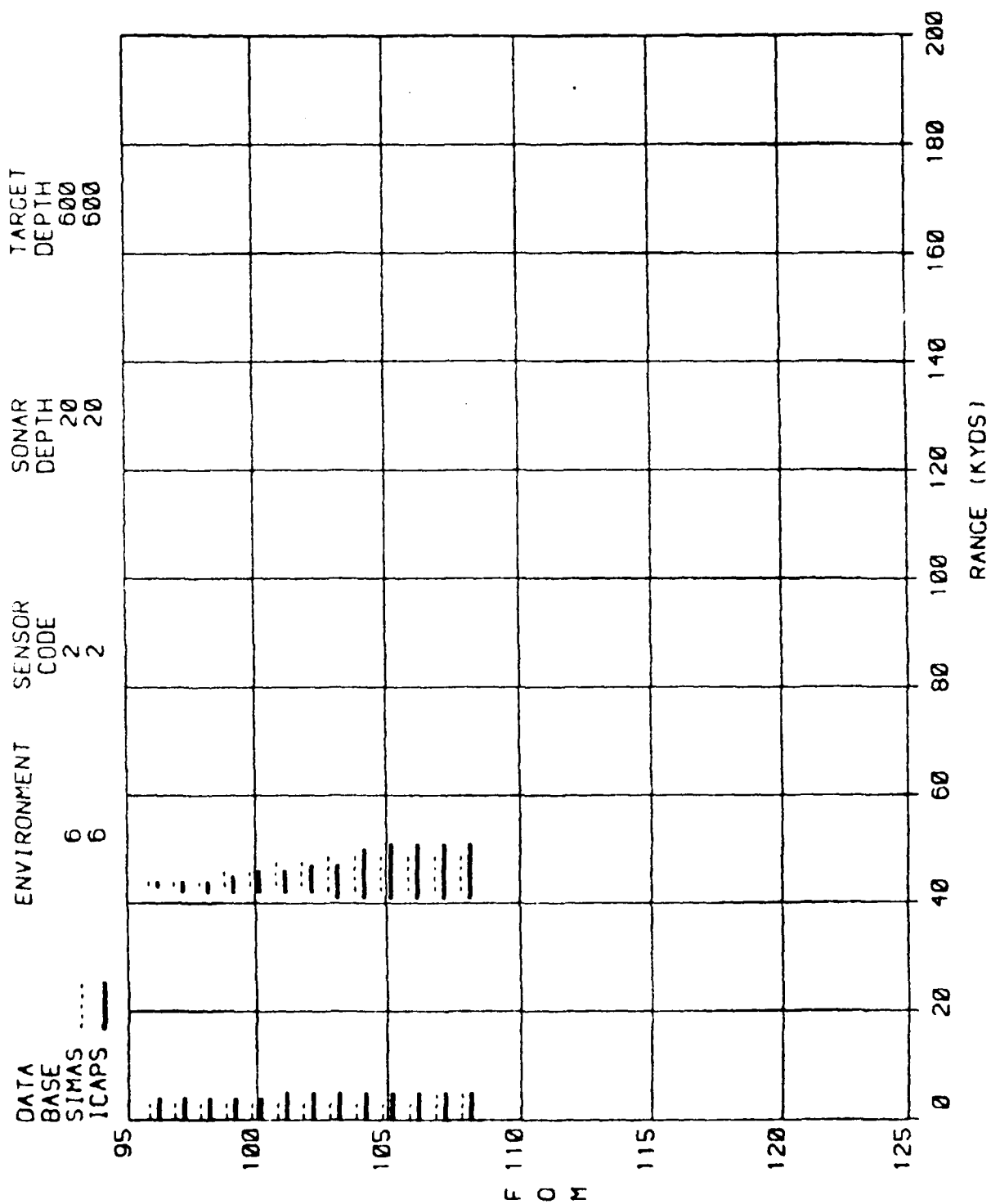


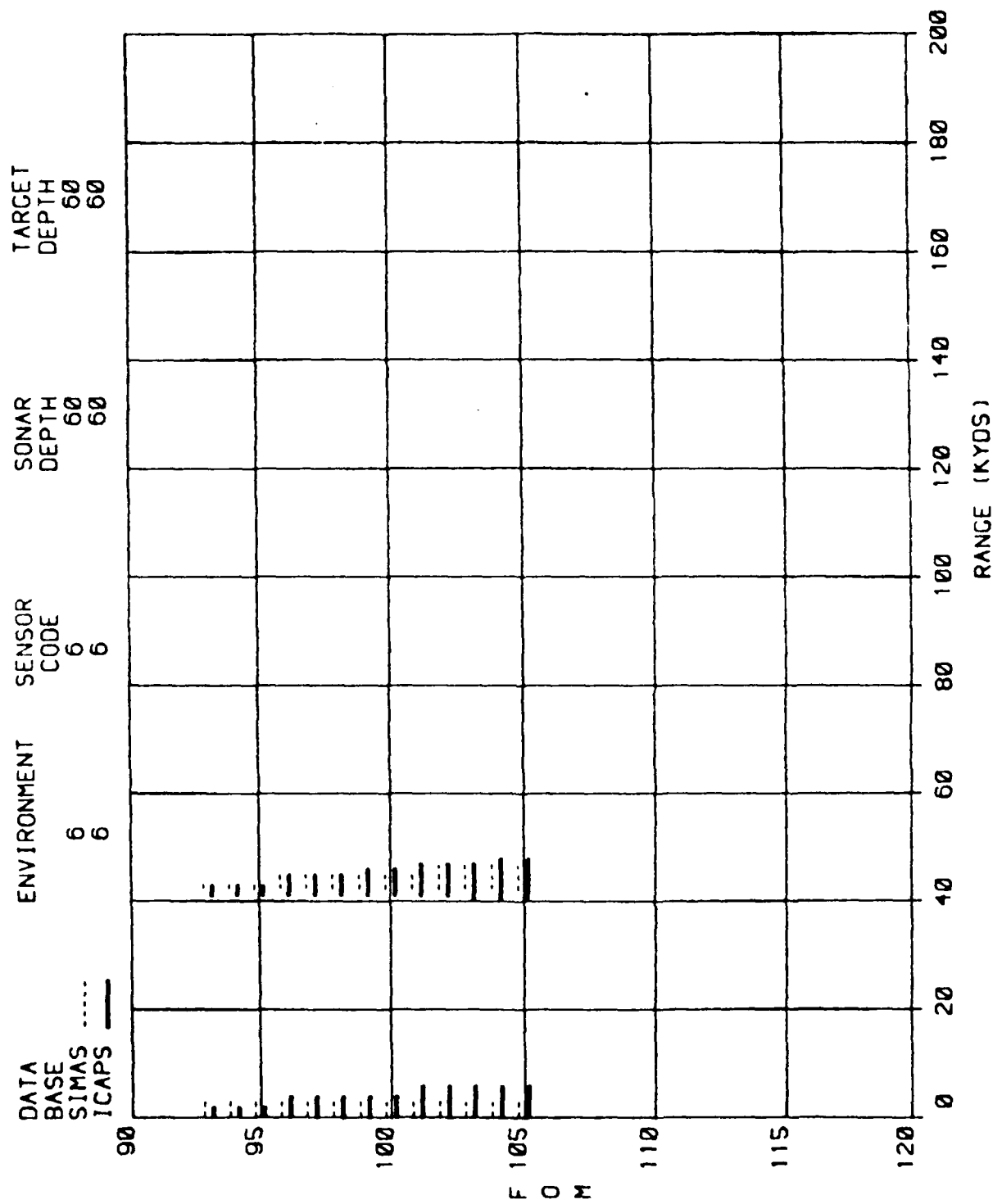


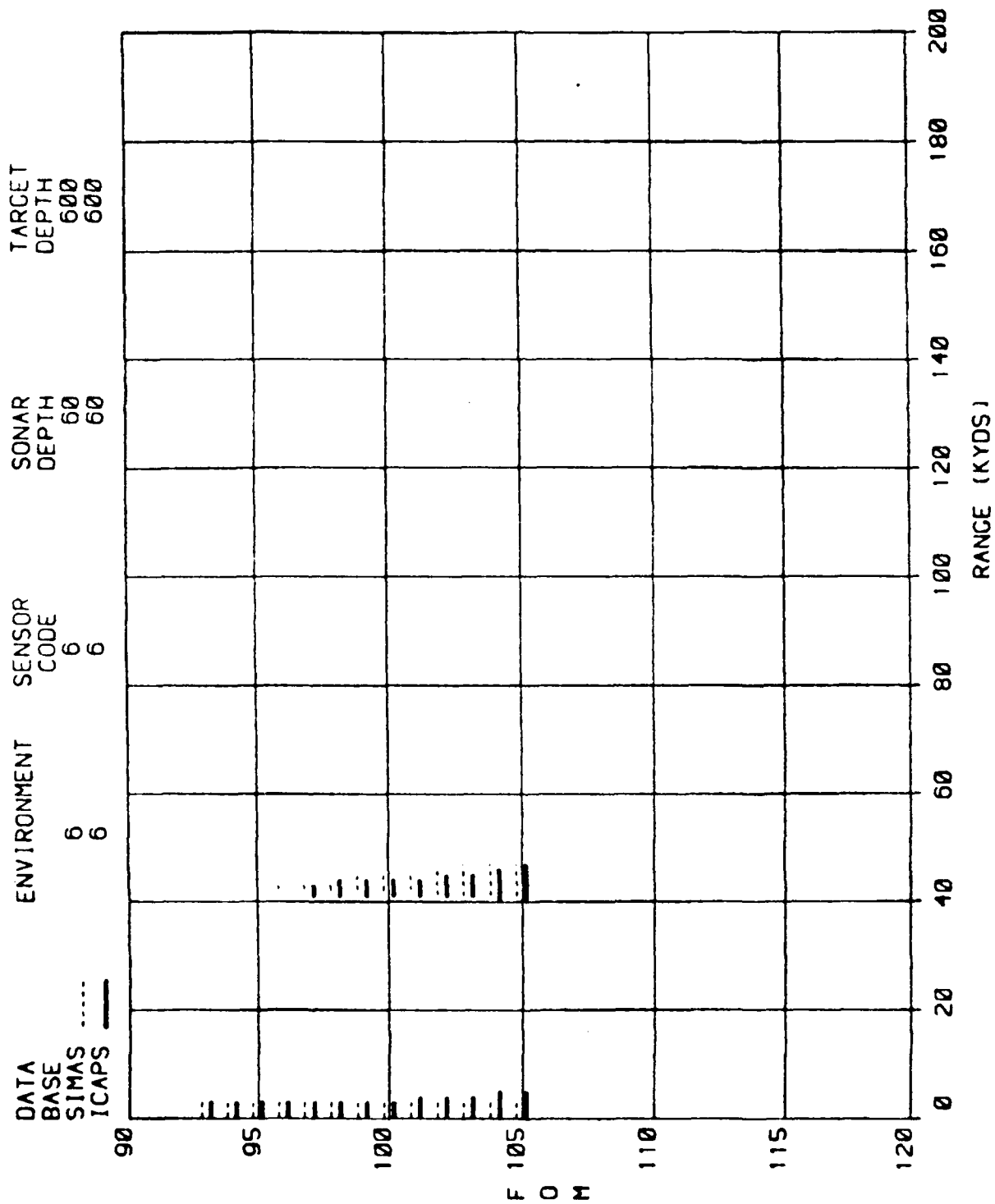


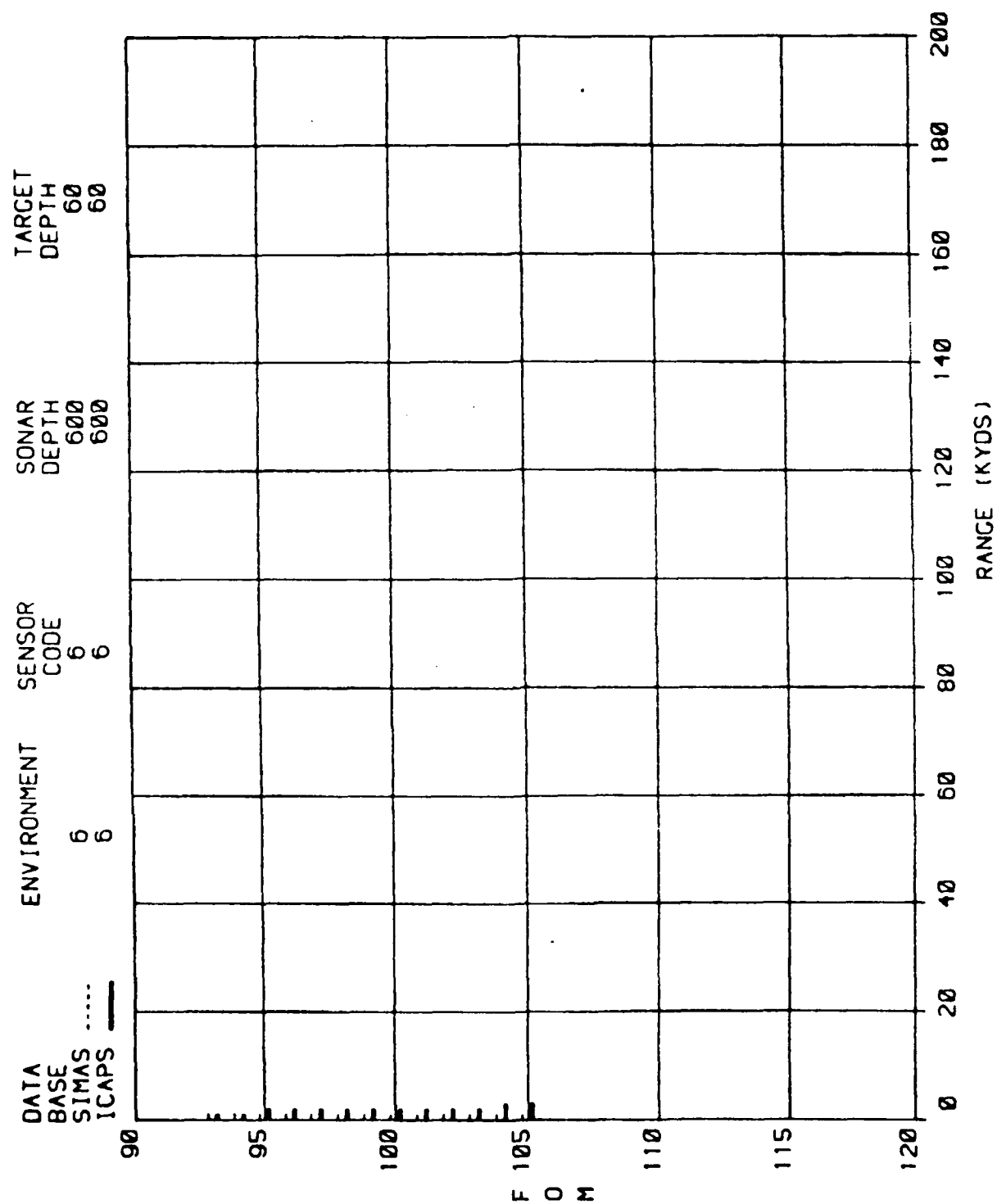


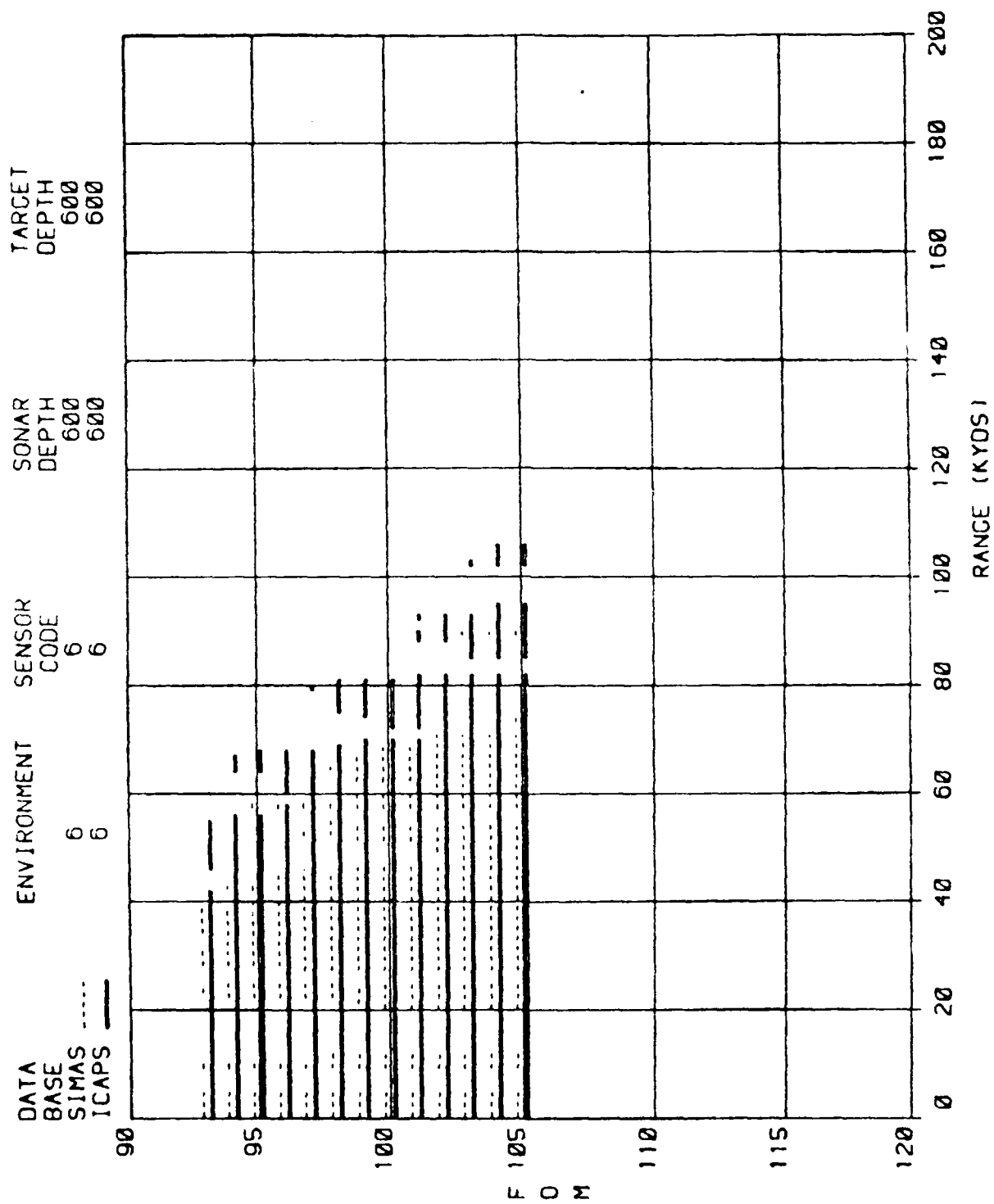


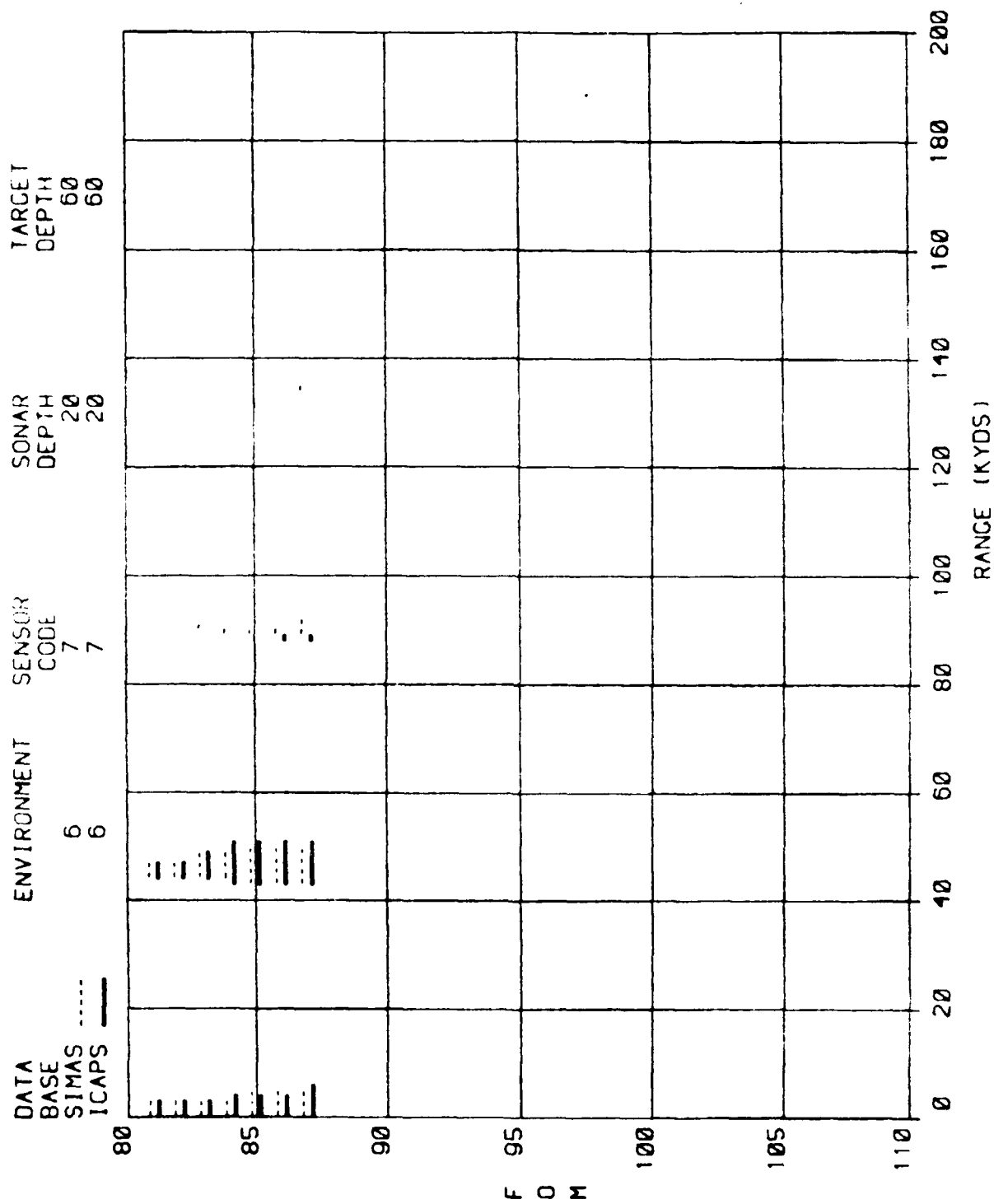


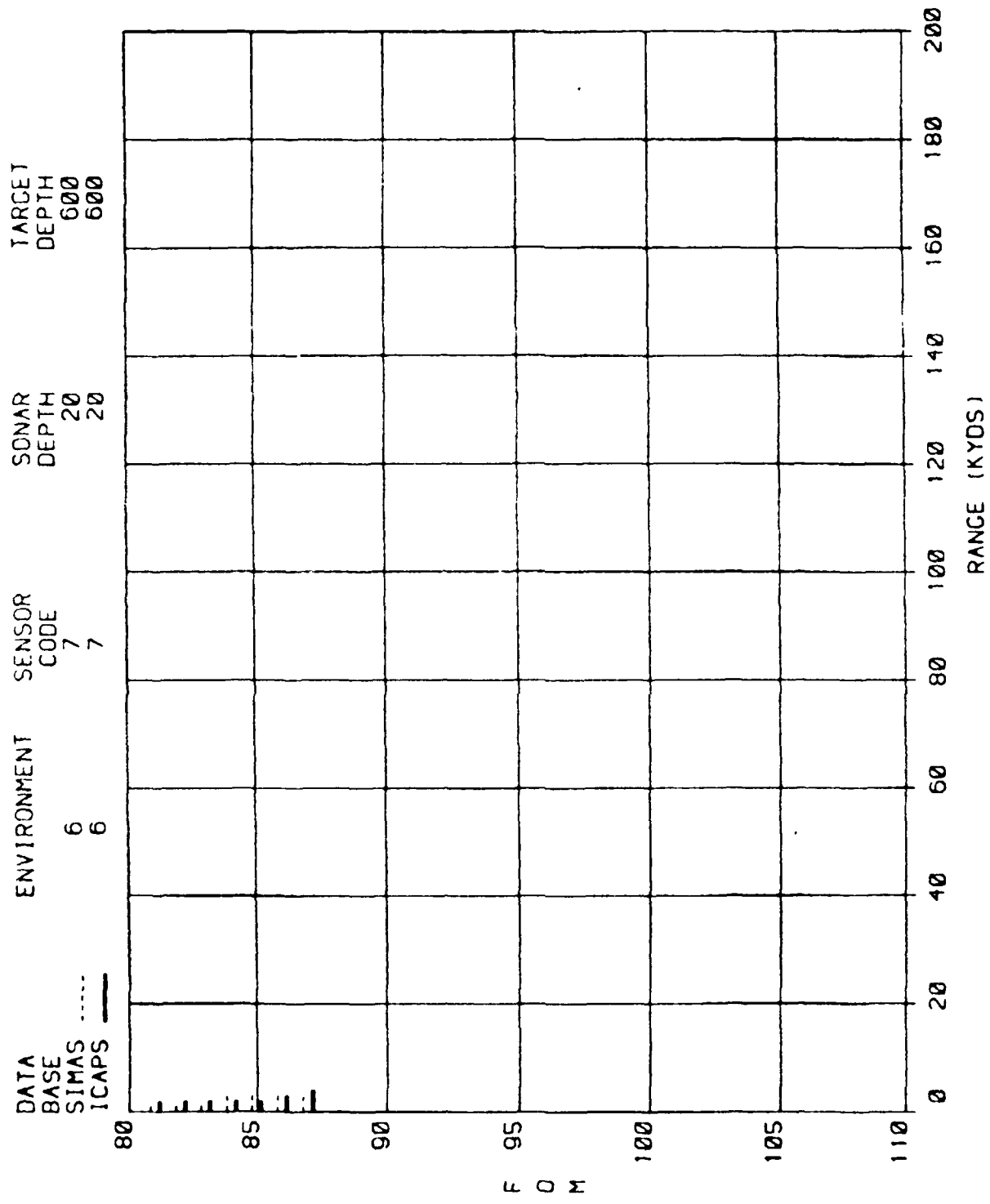


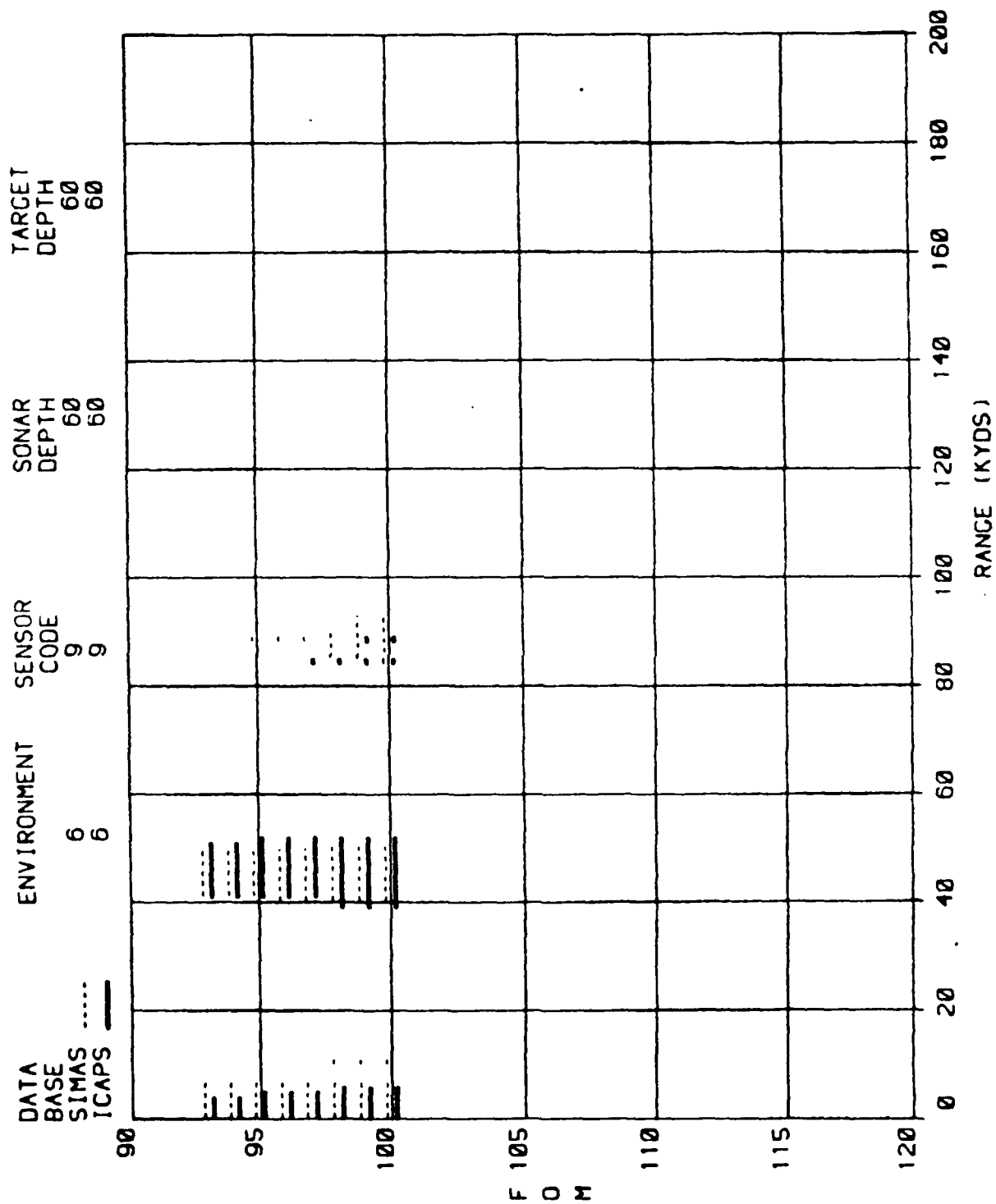


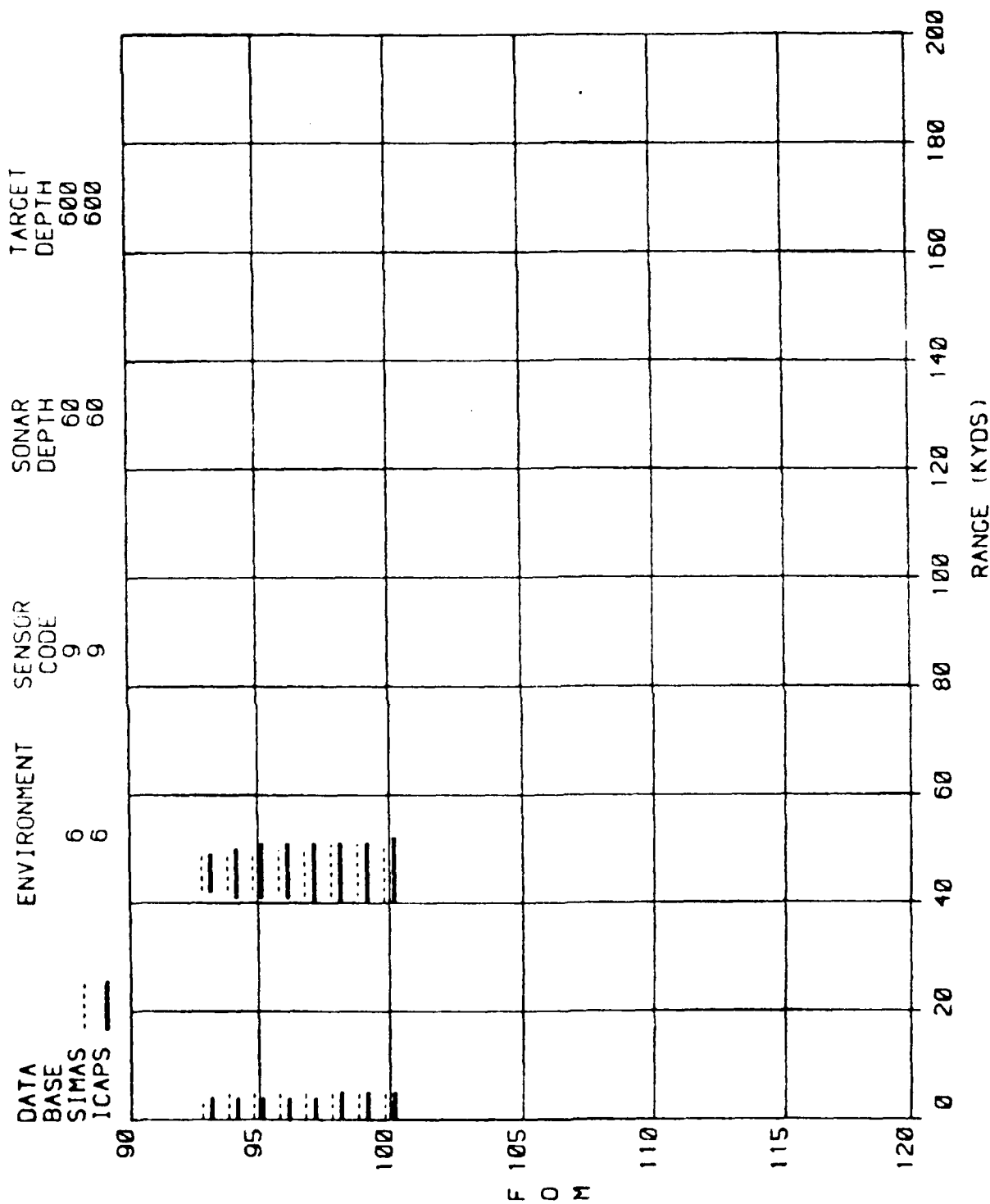


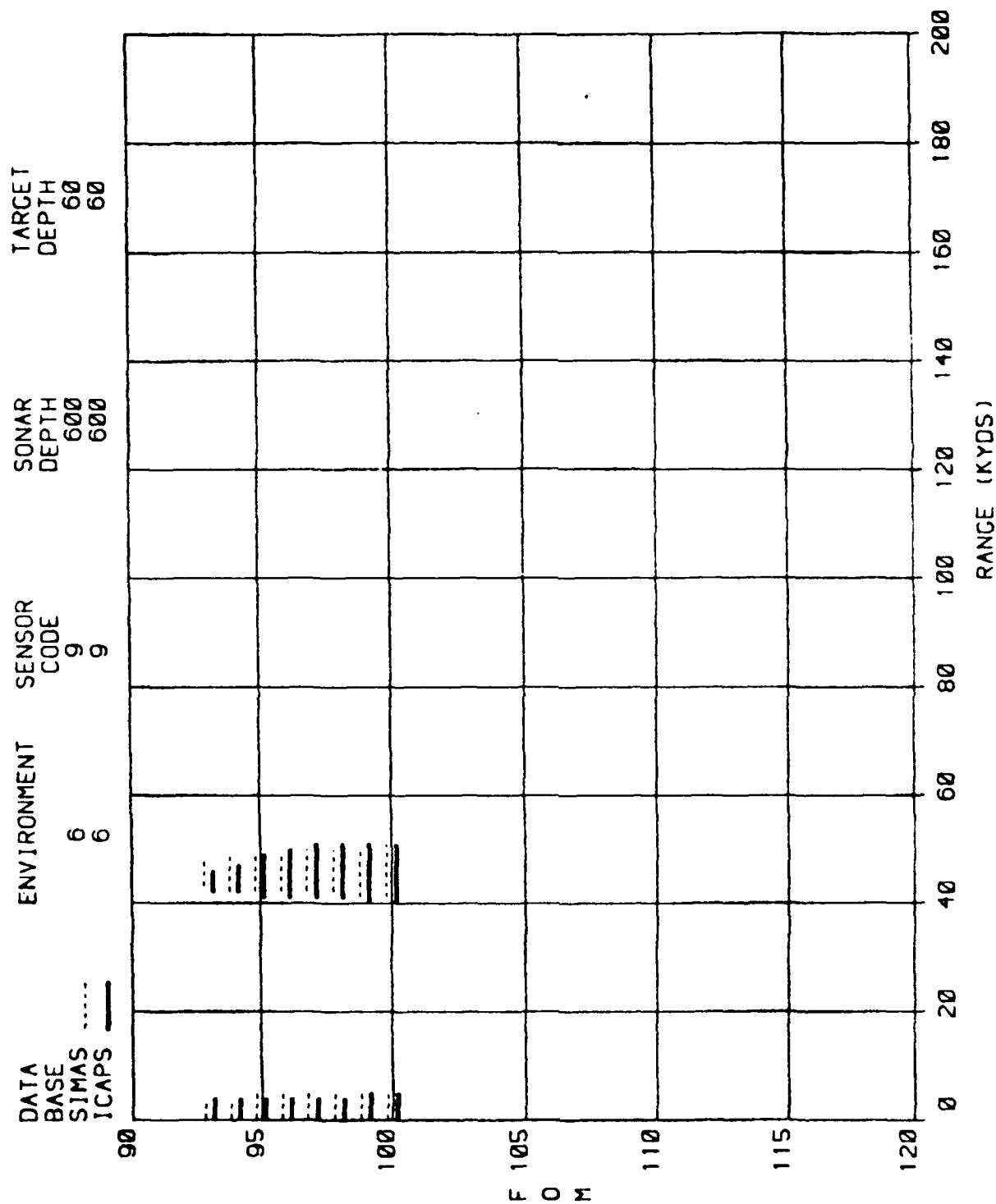


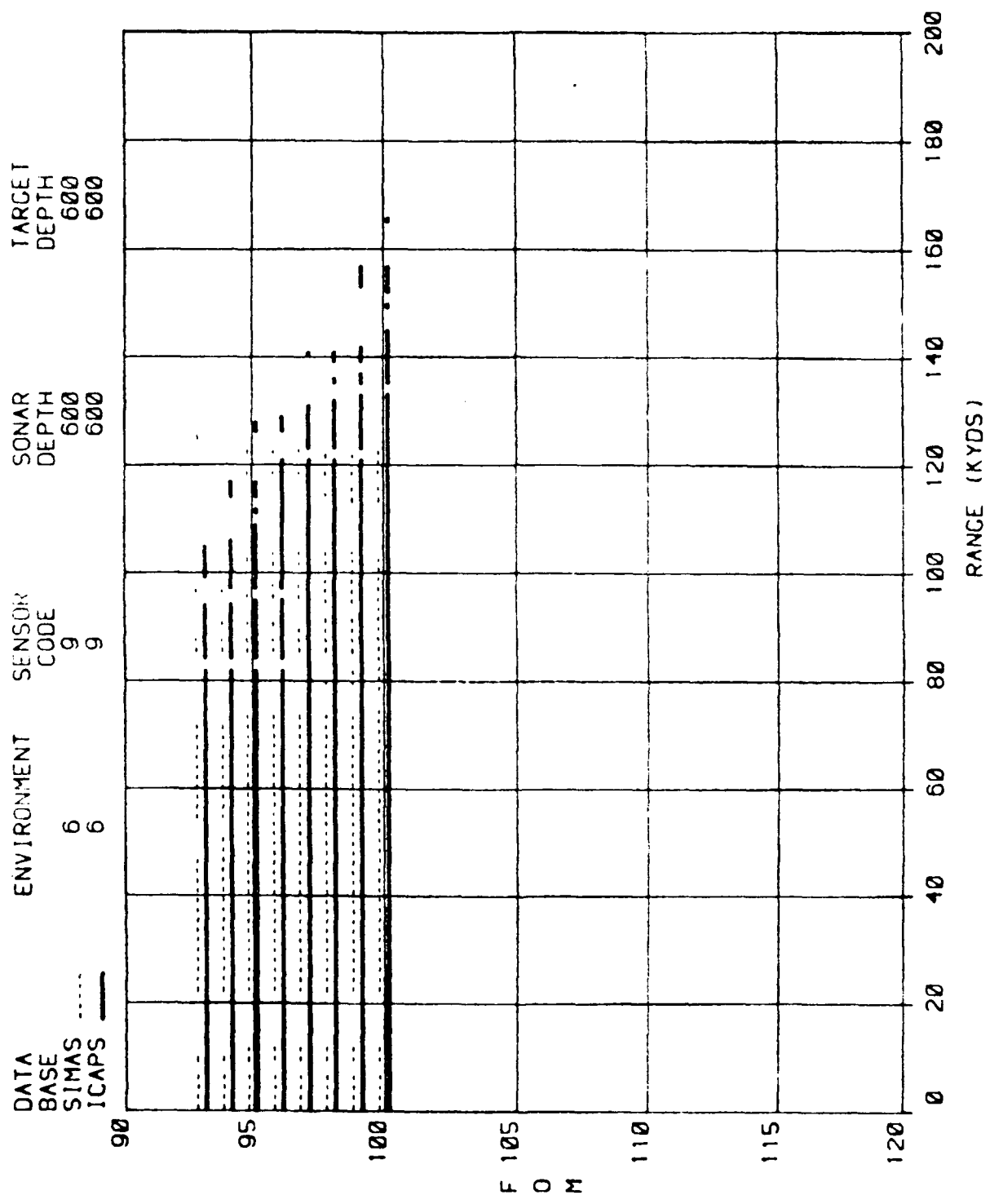


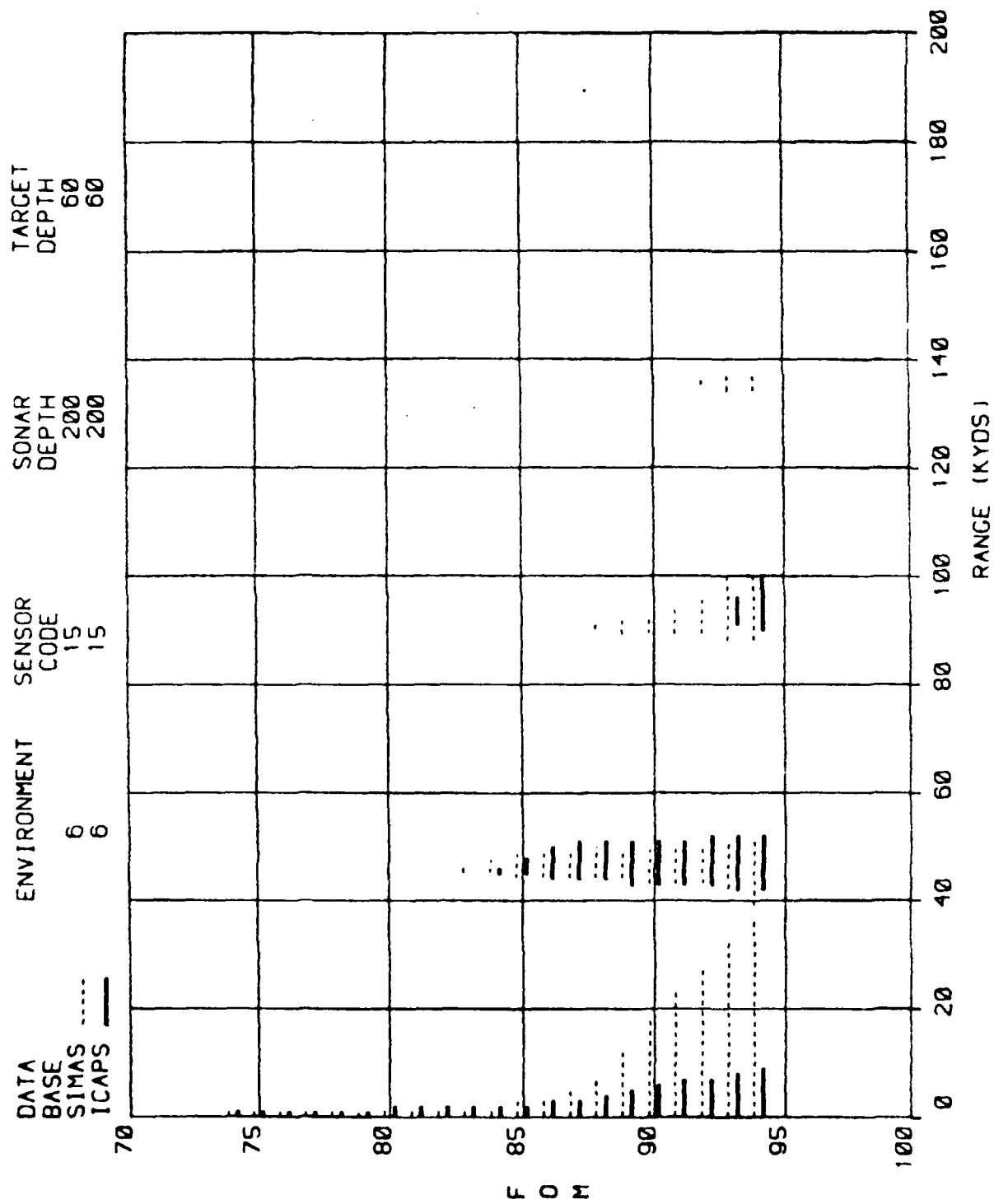


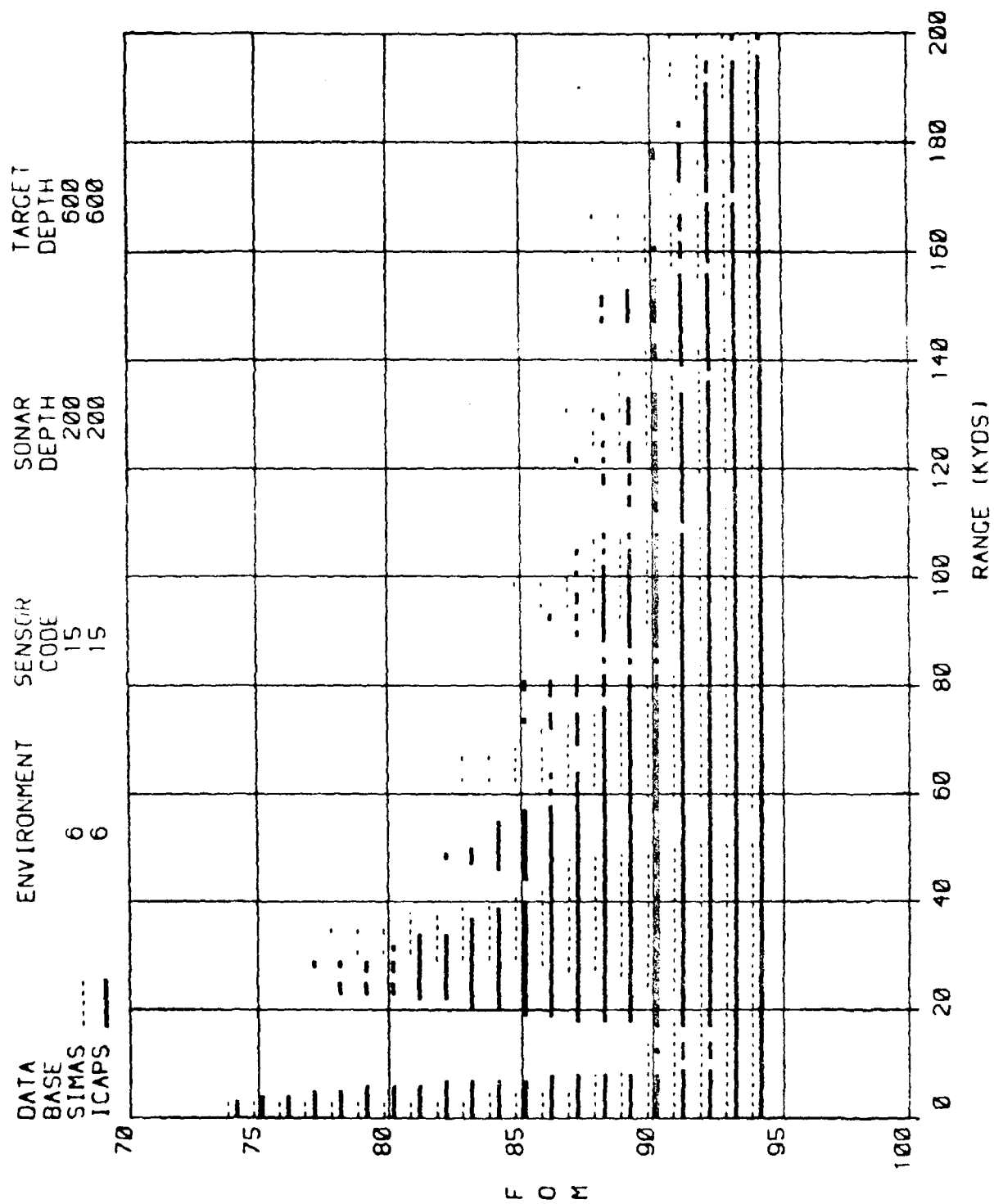


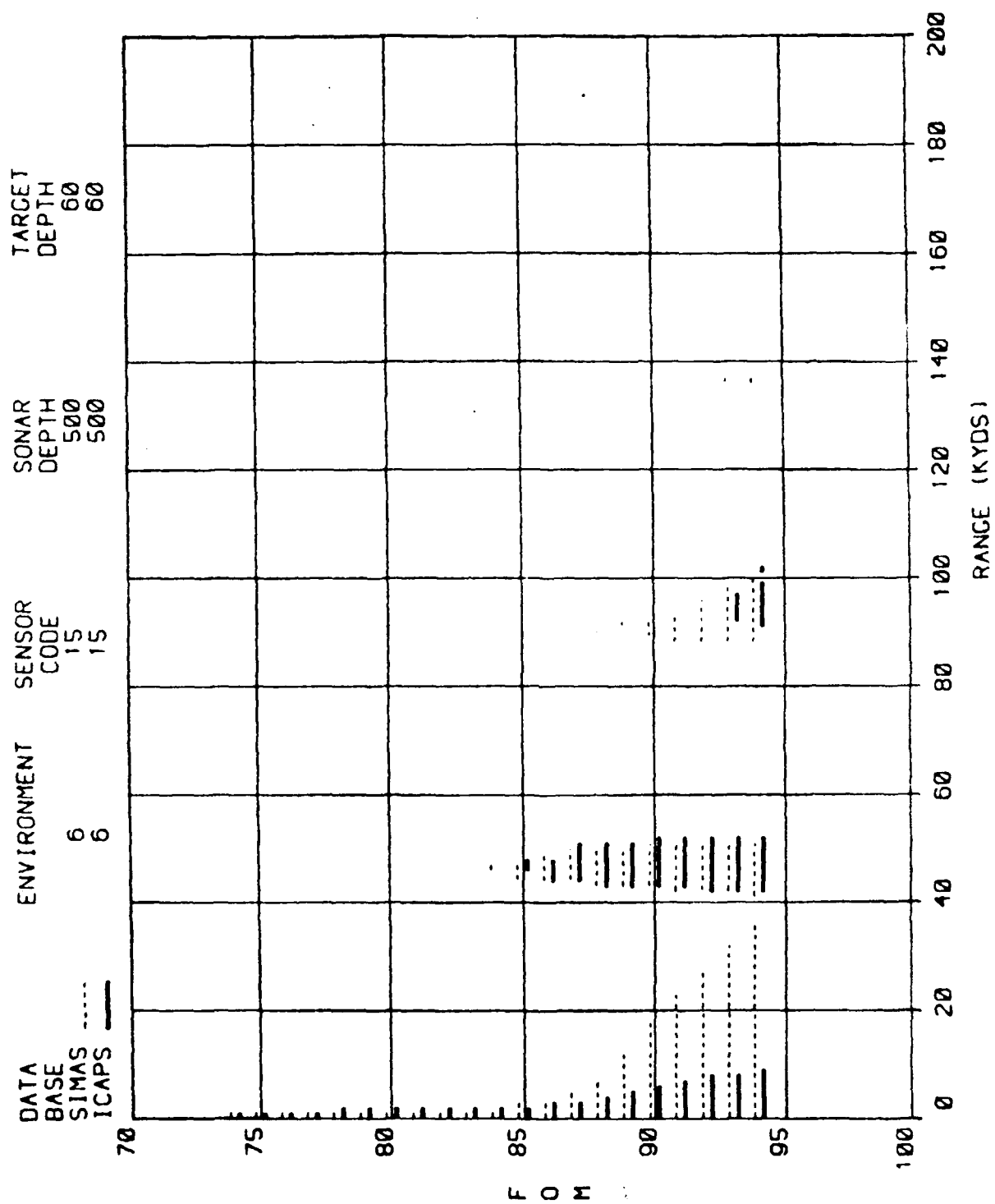


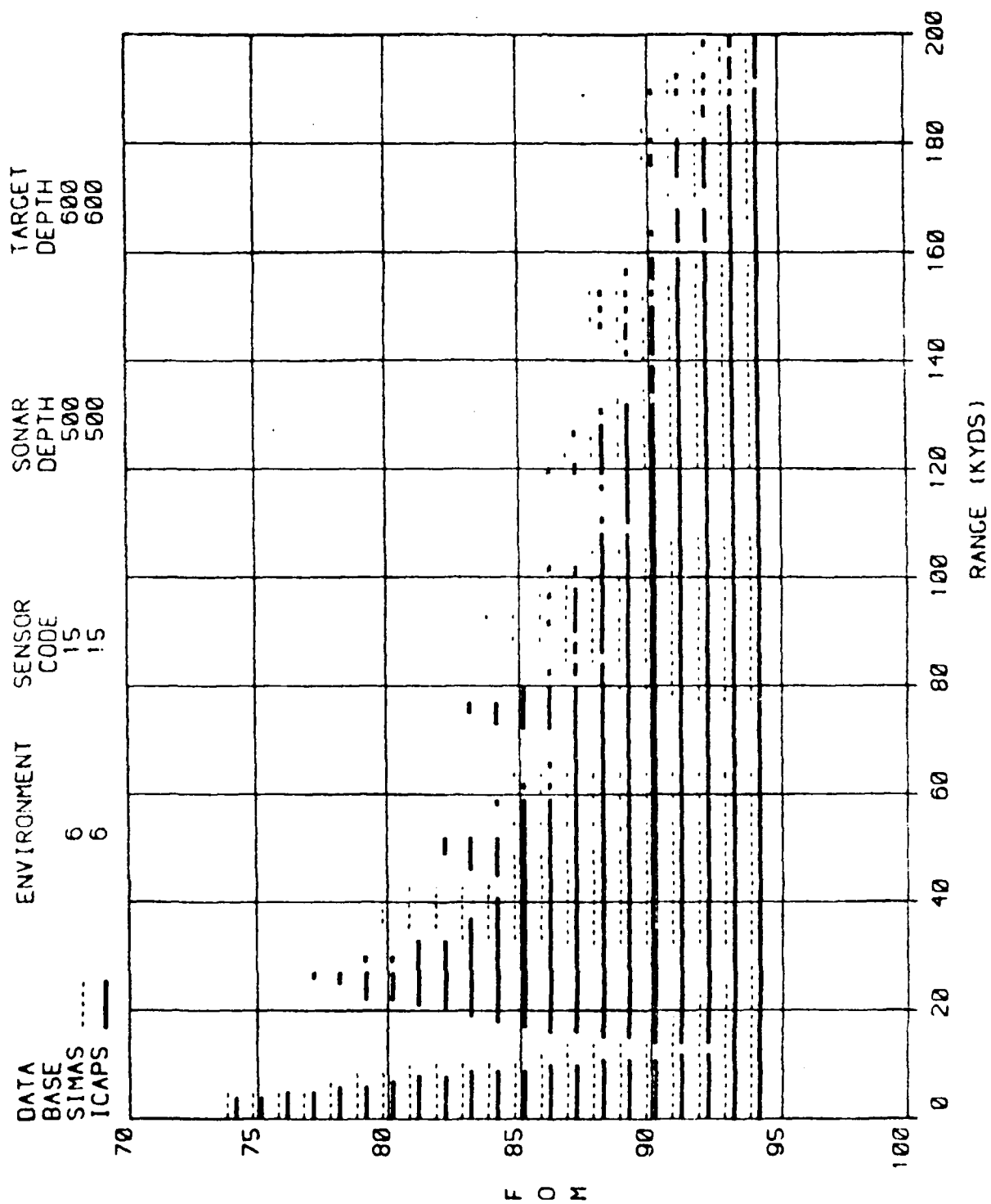


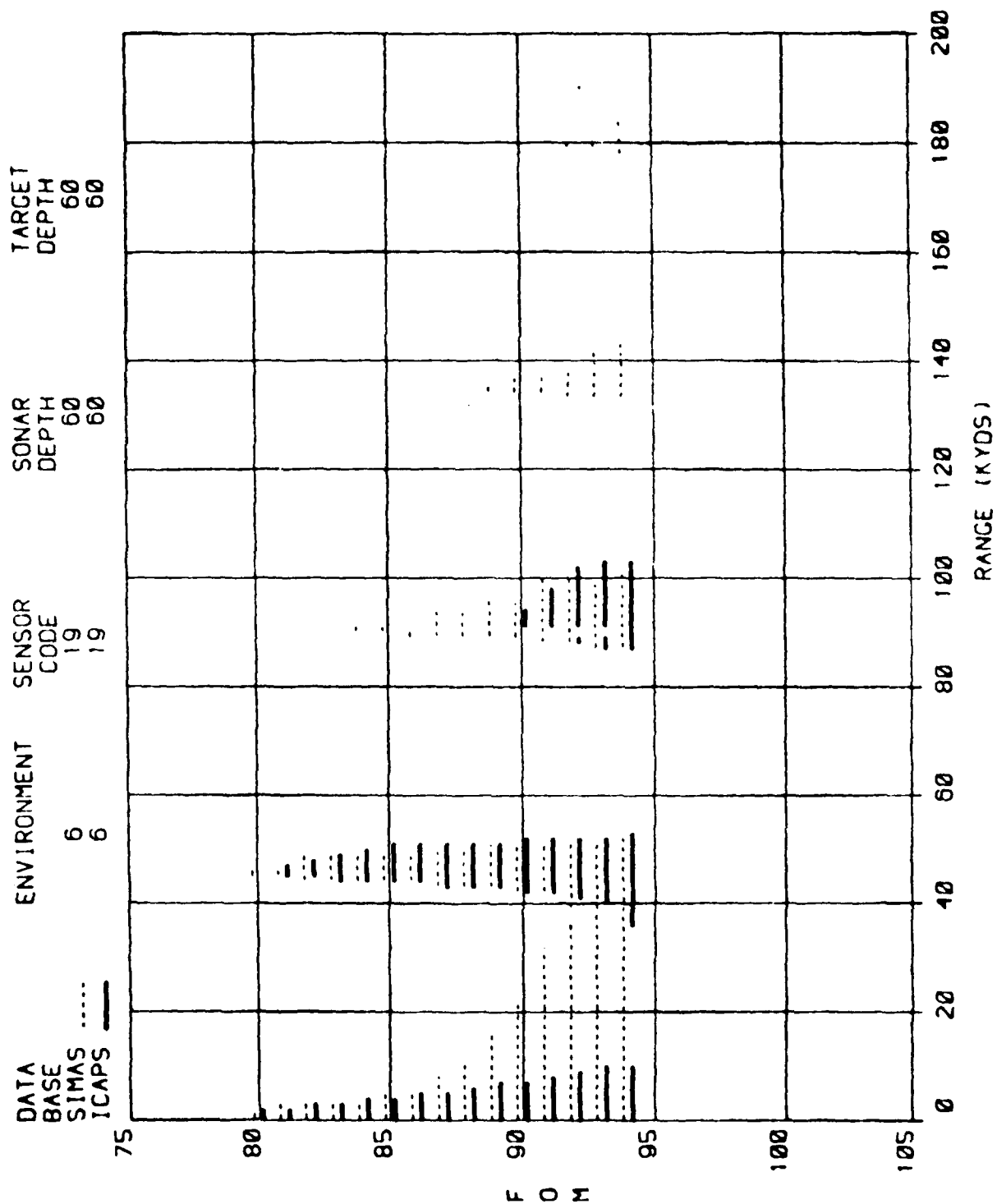


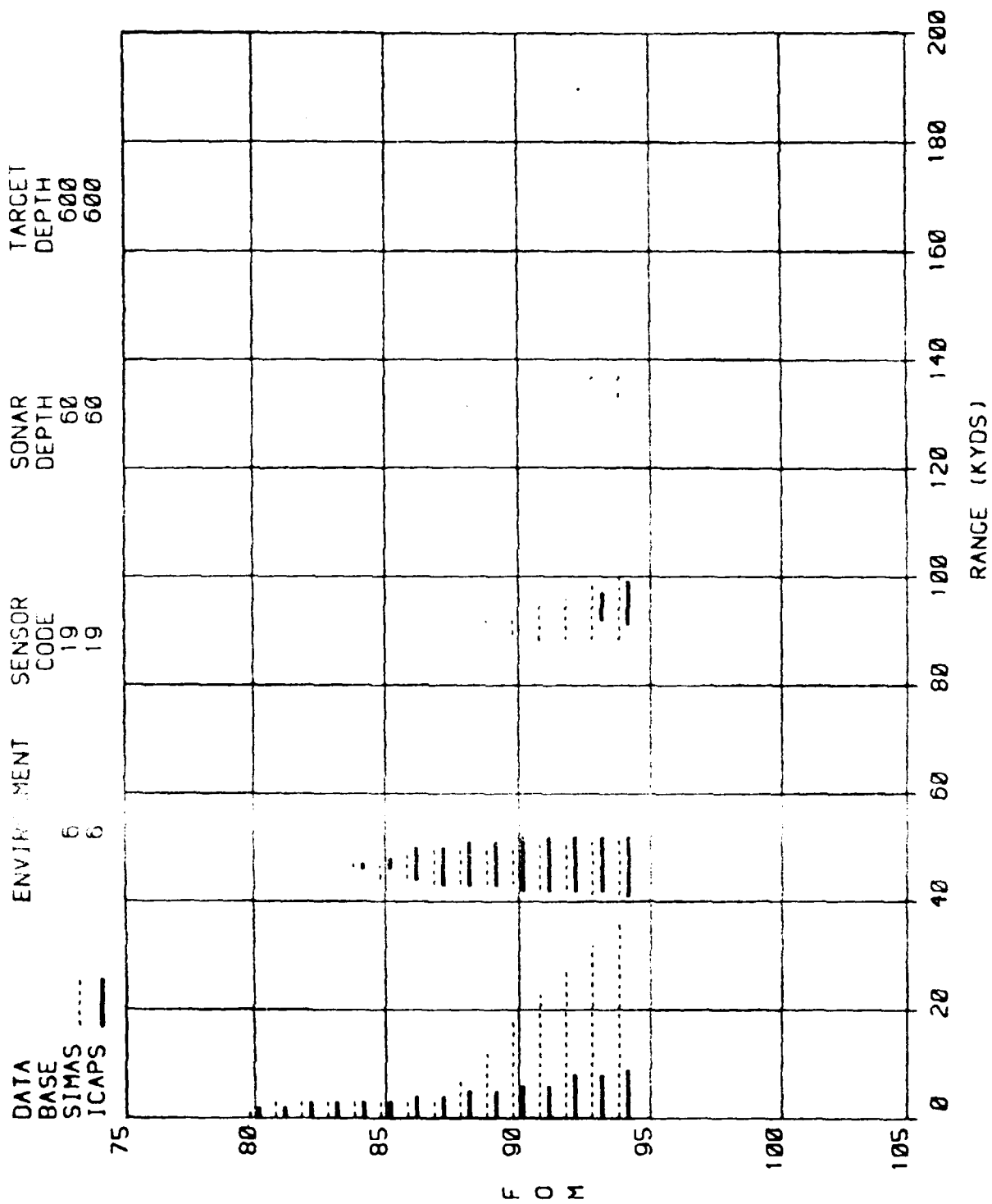


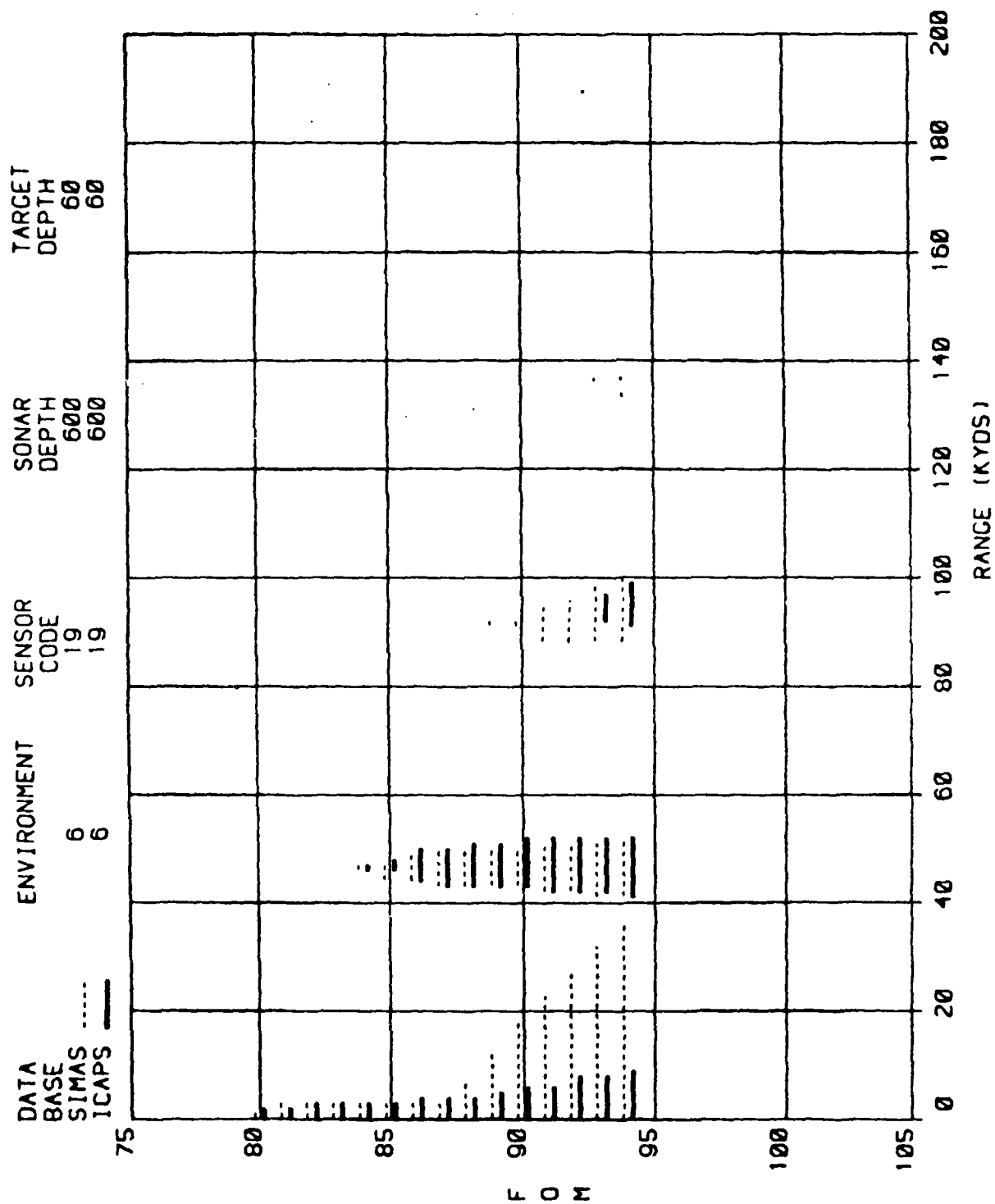


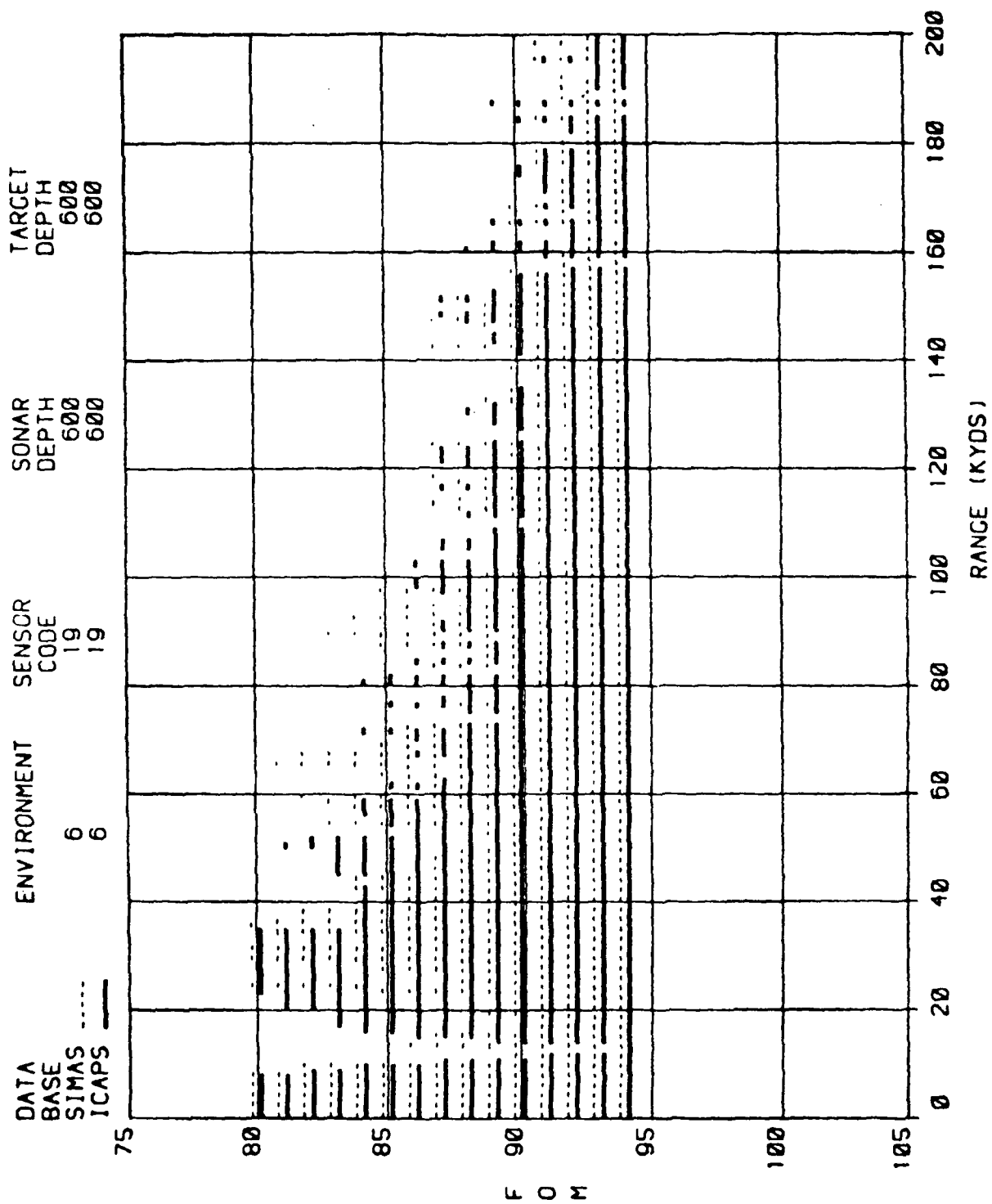


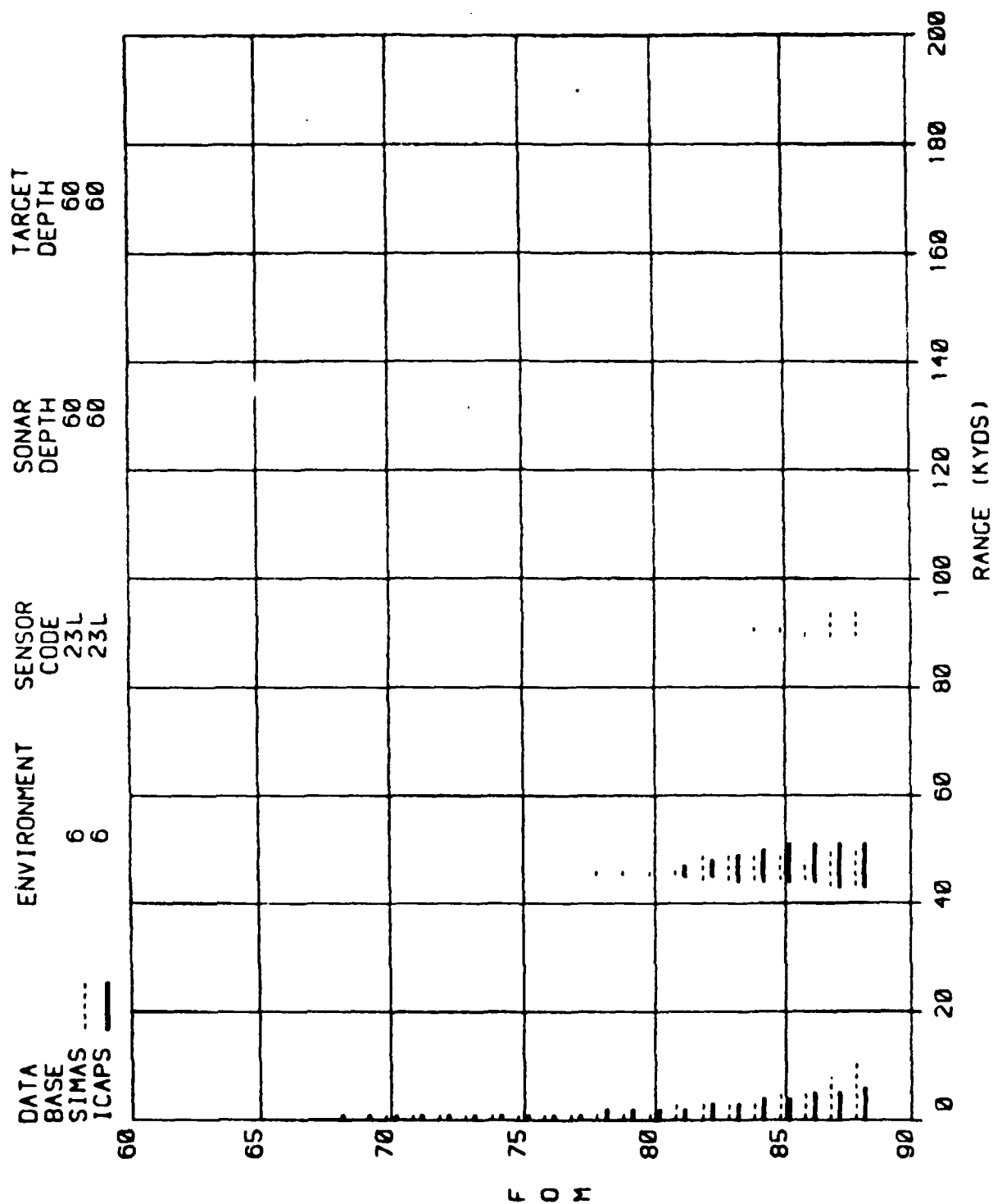


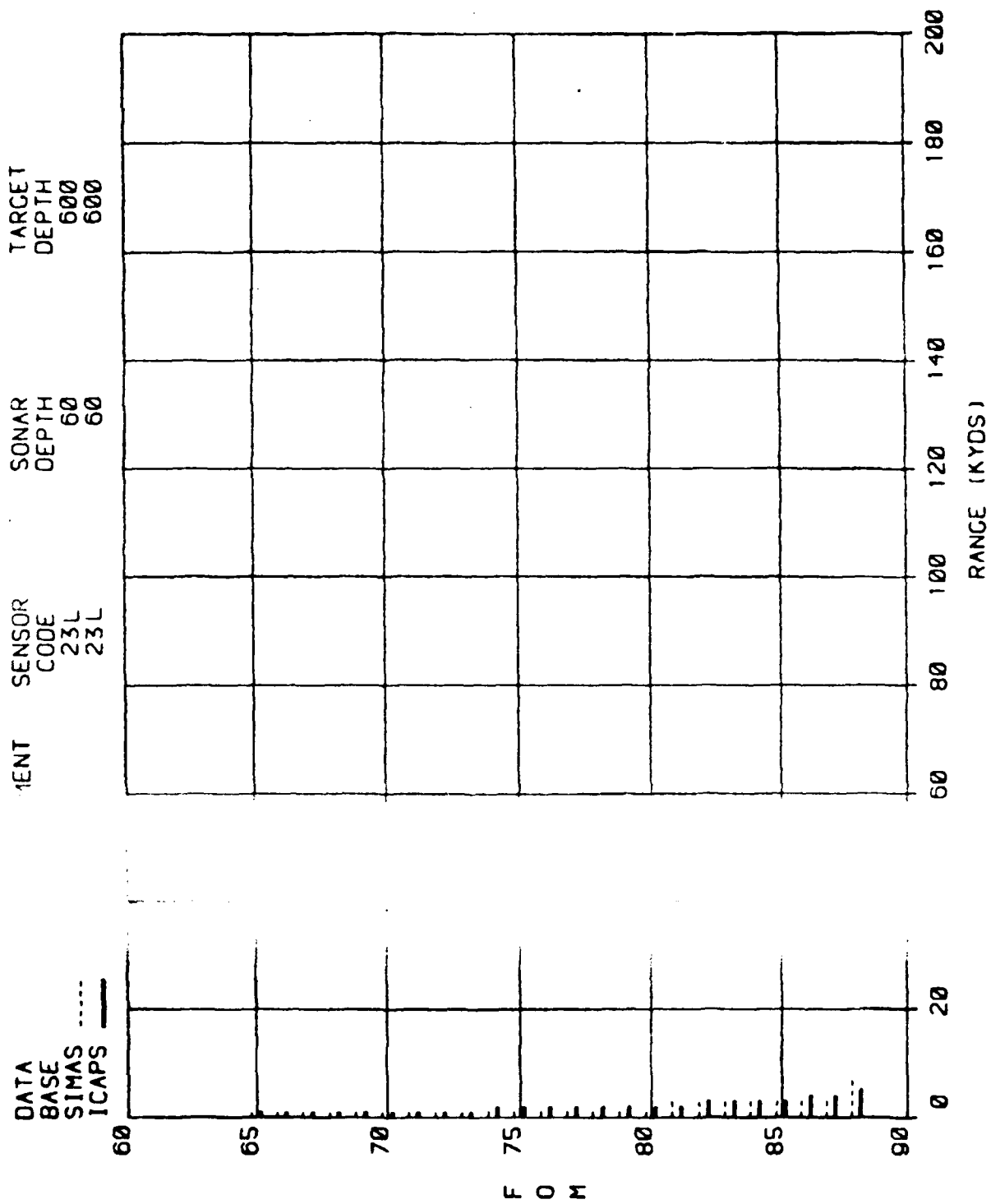


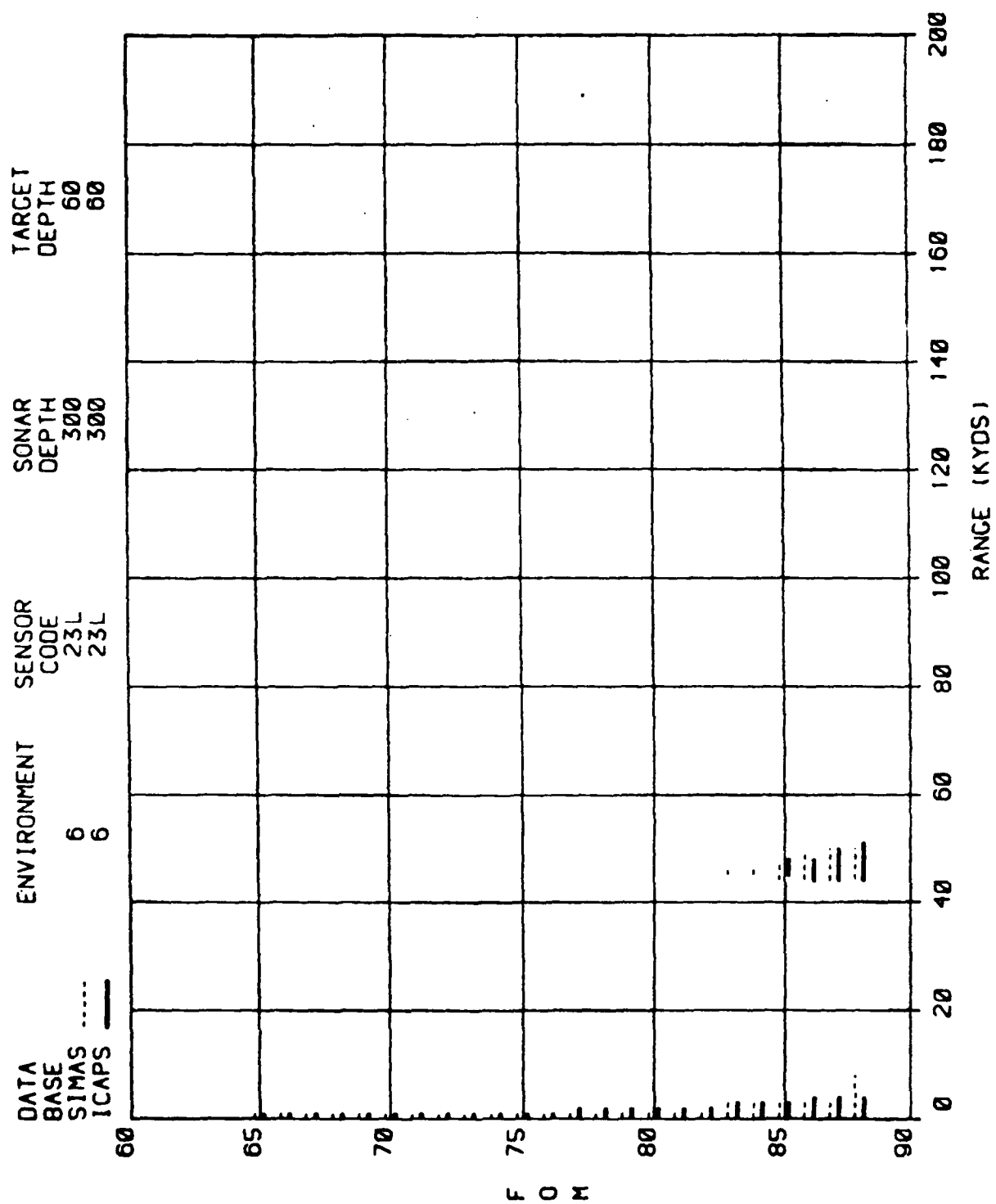


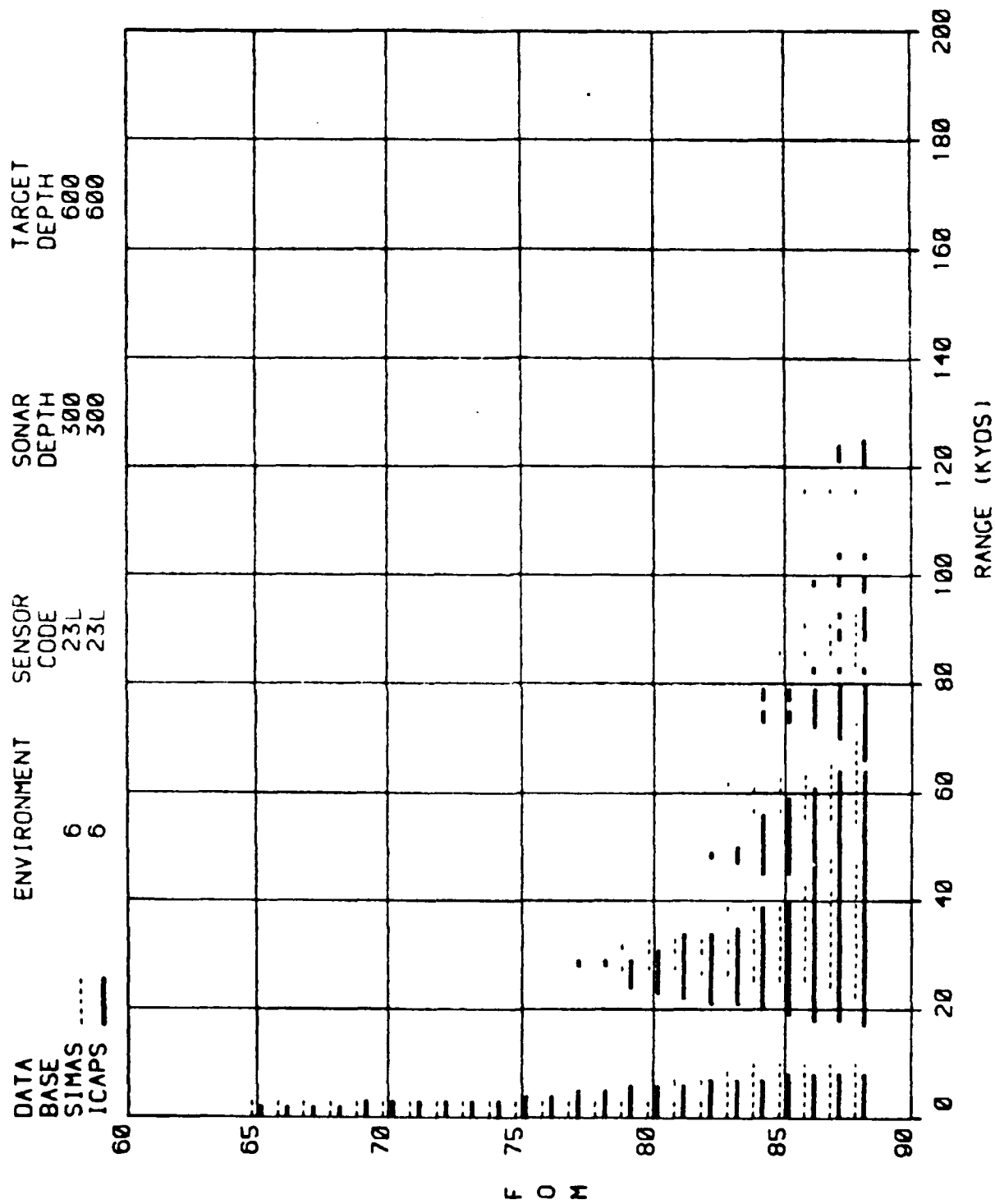


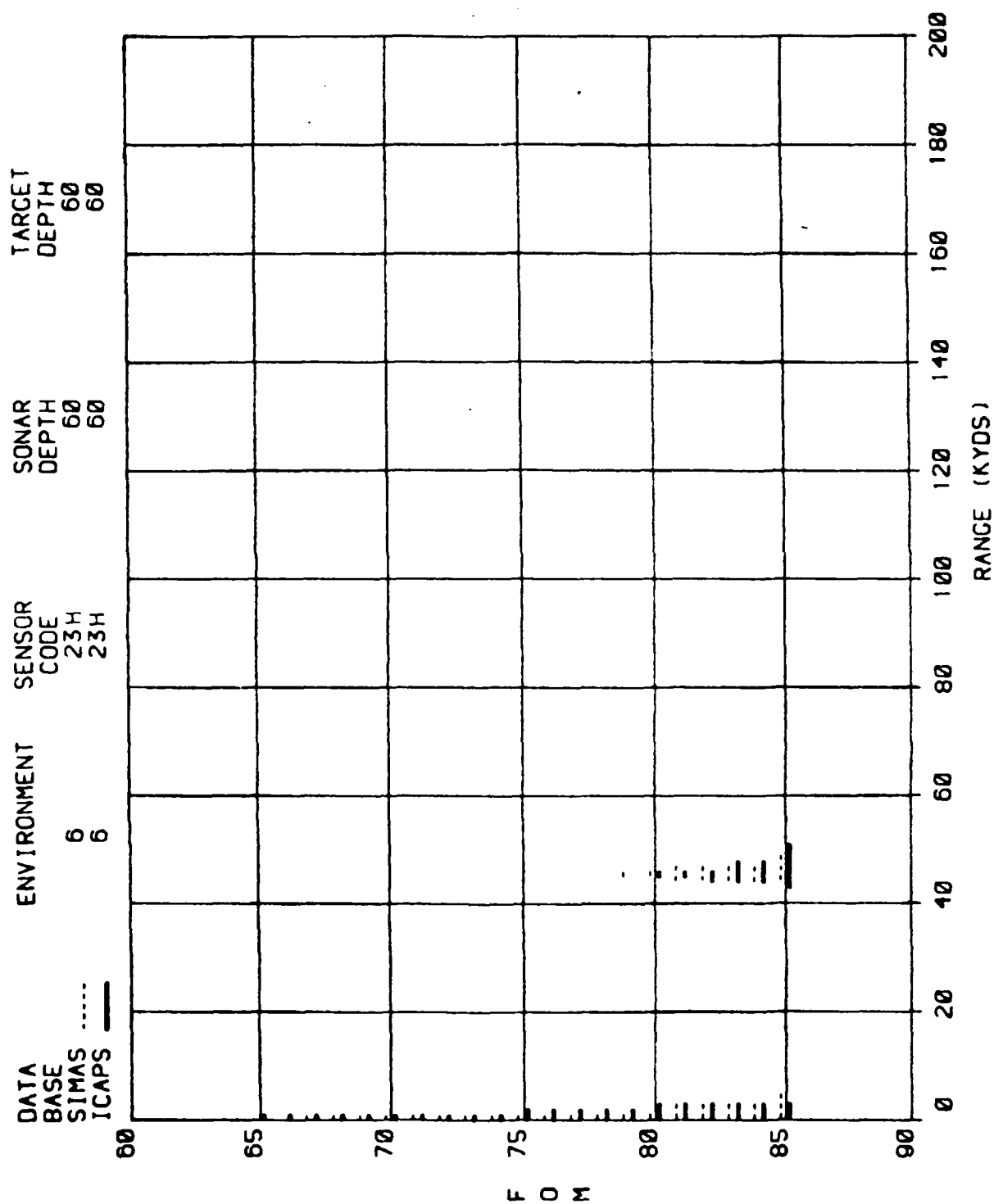


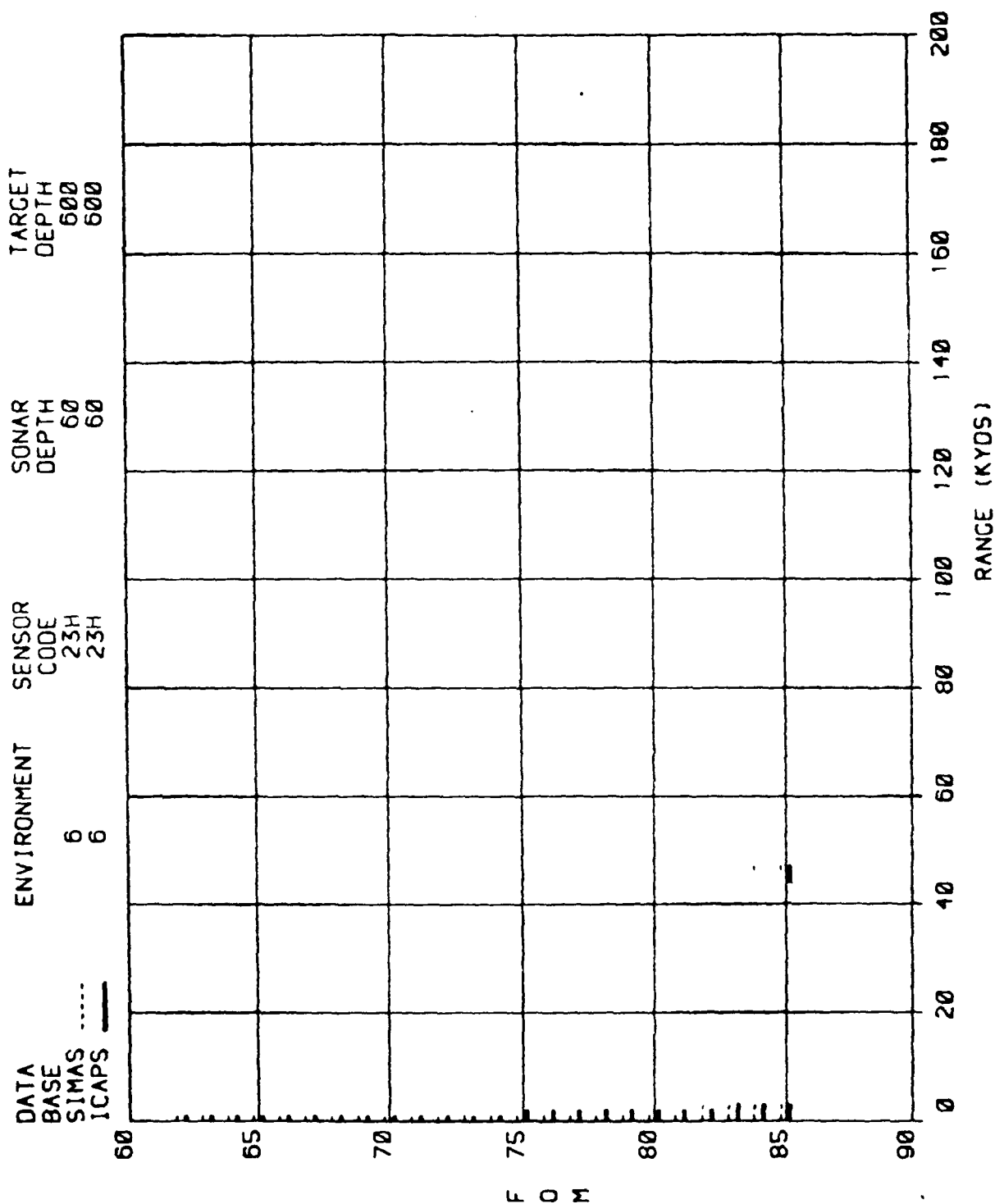


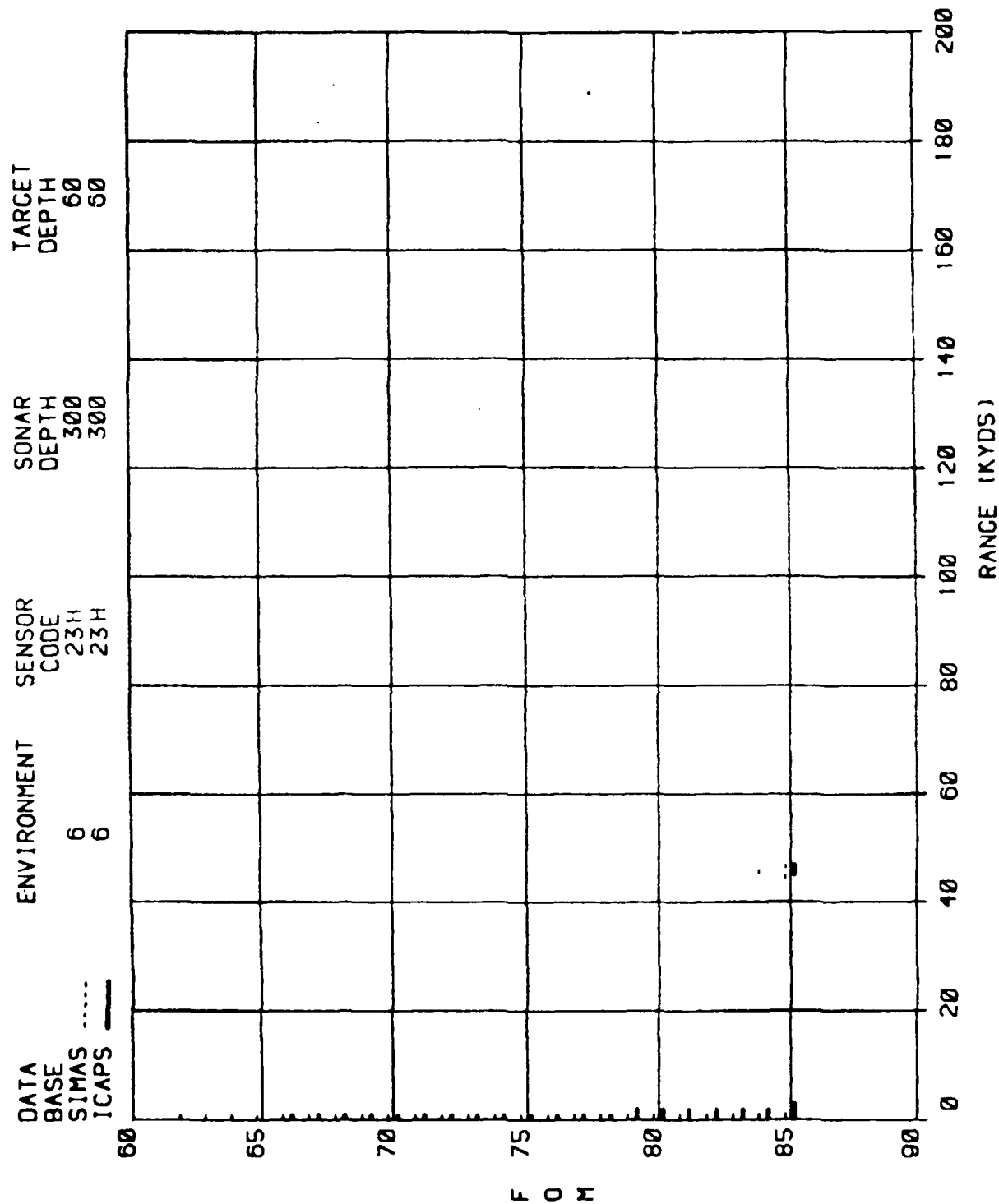


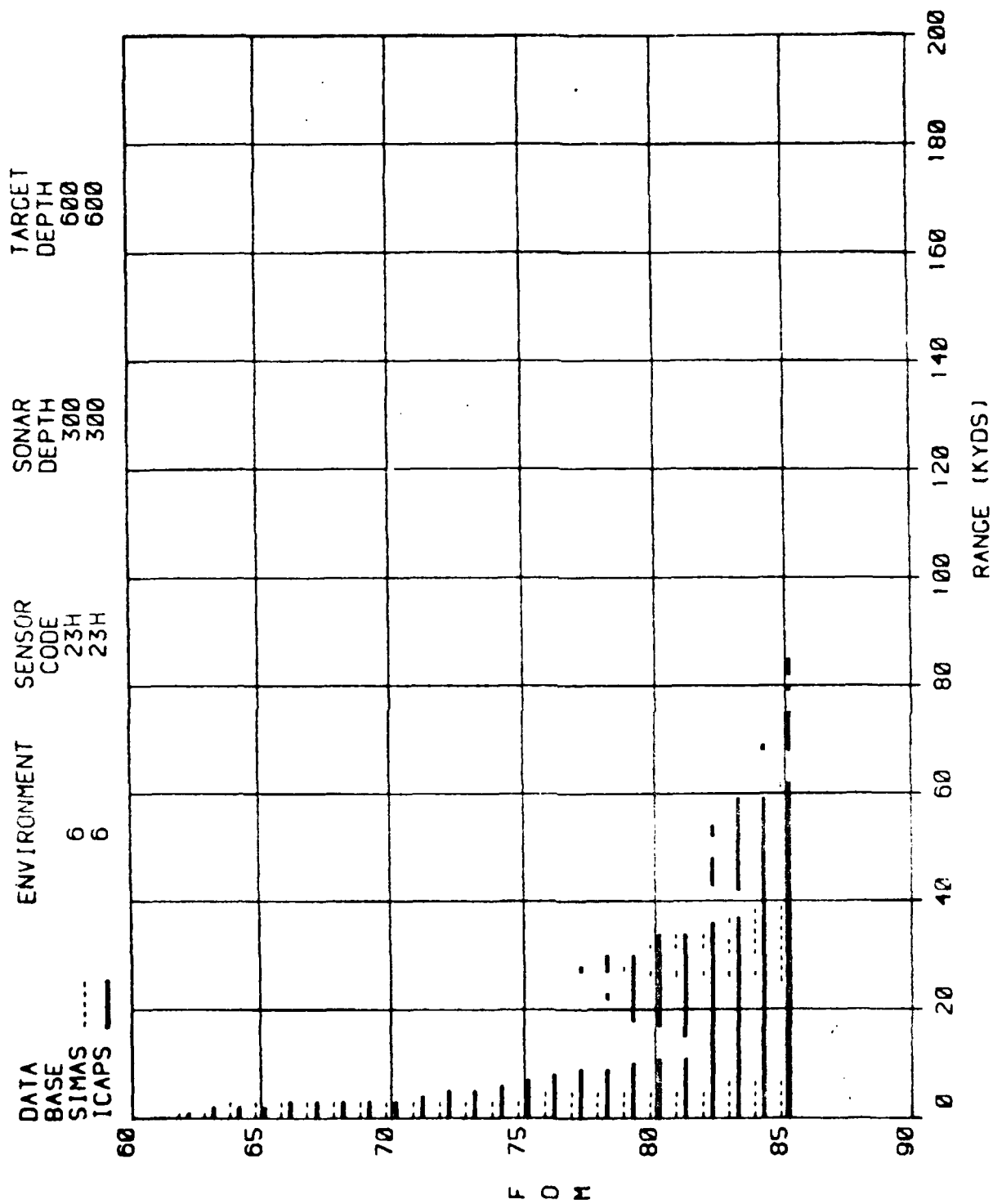












C. Sensor Performance Chart

1. Introduction

This section of the Acoustic Model Sensitivity to Input Data Differences report consists of sensor performance comparison tables which allow numerical comparison between the two data bases for a particular sensor/environment configuration as a function of FOM using certain measures of sensor performance. The measures which are used in the charts are described in Volume I Section C. The Propagation Loss Objective Analysis Scheme, described in the same section, was used to generate the Sensor Performance Charts. The results of this analysis are displayed as the 168 Sensor Performance Charts provided in this section.

2. Chart Description

The chart format is consistent throughout the section. The FOM values displayed in the first column are specified for each sensor and the selection process is described in Volume I Section D. The paired rows of range intervals allow immediate comparison to be made between the data bases (SIMAS and ICAPS) for each FOM value for each sensor performance measure. The width of a particular interval may be determined by reading the beginning (RN1) and ending (RN2) range. The sensitivity of a detection to FOM may be determined by looking for a similar detection range interval for FOM values less than or greater than that under consideration. These values provide the investigator with valuable, quantitative estimates of relative performance and the persistence of detections.

The measures used in the table have been described in Volume I Section C but will be repeated for convenience in using the chart.

- FOM - The range of FOM appropriate to the scenario and sensor.
- DATA - The source of environment inputs, SIMAS or ICAPS.
- RMAX - The maximum range at which FOM exceeds PL.
- RCONT - The initial continuous interval for which FOM exceeds PL.
- RTOTAL - The sum of all range intervals for which FOM exceeds PL.
- RN1 - The beginning range for the N_{th} interval for which FOM exceeds PL.
- RN2 - The ending range for the N_{th} interval for which FOM exceeds PL.

The chart displays the first six detection intervals, but the analysis routine accumulates up to 15 detection intervals. These cases may be detected when R62 has a non-zero entry which is less than RMAX. The interval will appear on the appropriate Sensor Performance Plot (Volume II Section B).

Each plot contains a header which delineates the environment, sensor code, sonar depth (feet), and target depth (feet). A full description of the environment may be found in Volume I Section B. The characteristics of the sensors including designation, frequency, vertical beamwidth, FOM interval, and nominal FOM may be found in Volume I Section D.

The performance of each sensor has been characterized as a function of data base and a written description relating observed performance differences to PL and environment differences may be found in Volume I Section F.

SENSOR PERFORMANCE CHART

ENVIRONMENT		1	SOMAR 15-14	20										
NO. 2		TARGET	15-14	40										
ITEM	DATA	RMA	RCTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	17	12	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	25	12	25	0	0	0	0	0	0	0	0	0	0
97	SIMAS	19	12	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	25	12	25	0	0	0	0	0	0	0	0	0	0
98	SIMAS	22	14	19	21	22	0	0	0	0	0	0	0	0
	ICAPS	30	14	25	28	30	0	0	0	0	0	0	0	0
99	SIMAS	24	14	19	21	22	0	0	0	0	0	0	0	0
	ICAPS	30	14	26	23	30	0	0	0	0	0	0	0	0
100	SIMAS	22	12	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	30	12	26	28	30	0	0	0	0	0	0	0	0
101	SIMAS	22	12	22	0	0	0	0	0	0	0	0	0	0
	ICAPS	34	14	34	0	0	0	0	0	0	0	0	0	0
102	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	34	24	34	0	0	0	0	0	0	0	0	0	0
103	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	35	24	35	0	0	0	0	0	0	0	0	0	0
104	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	43	26	35	37	38	41	43	0	0	0	0	0	0
105	SIMAS	27	24	22	26	27	0	0	0	0	0	0	0	0
	ICAPS	44	24	44	0	0	0	0	0	0	0	0	0	0
106	SIMAS	27	26	22	24	27	0	0	0	0	0	0	0	0
	ICAPS	46	26	46	0	0	0	0	0	0	0	0	0	0
107	SIMAS	27	27	27	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	27	47	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT	1	2	SONAR DEPTH		RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
			TARGET	DEPTH											
DATA	1	2	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
SIMAS	30	29	27	29	27	29	30	0	0	0	0	0	0	0	0
ICAPS	48	48	48	48	48	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 600

FUM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAFS	41	18	11	35	41	0	0	0	0	0	0	0	0

ENVIRONMENT	1	CONC	1.00	60
SENSOR	6	TARGET	1.00	60

341

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	26	23	21	25	26	0	0	0	0	0	0	0	0
	ICAPS	36	36	36	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	IRTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	9	9	0	0	0	0	0	0	0	0	0	0
94	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
95	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
96	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
97	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
98	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
99	SIMAS	12	8	6	11	12	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
100	SIMAS	12	9	6	10	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
101	SIMAS	12	9	6	10	12	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
102	SIMAS	13	10	6	10	13	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
103	SIMAS	13	10	6	10	13	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
104	SIMAS	13	10	6	10	13	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	14	12	5	9	14	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
94	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
95	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
96	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
97	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
98	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
99	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
100	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
101	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
102	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
103	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
104	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 400
 SENSOR 6 TARGET DEPTH 60

FOI	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
105	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1		SONAR DEPTH 600																		
SENSOR 6		TARGET DEPTH 600																		
FUM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
93	SIMAS	14	6	3	12	14	0	0	0	0	0	0	0	0						
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0						
94	SIMAS	15	7	3	12	15	0	0	0	0	0	0	0	0						
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0						
95	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0						
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0						
96	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0						
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0						
97	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0						
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0						
98	SIMAS	15	9	4	11	15	0	0	0	0	0	0	0	0						
	ICAPS	50	10	8	47	50	0	0	0	0	0	0	0	0						
99	SIMAS	15	10	5	11	15	0	0	0	0	0	0	0	0						
	ICAPS	50	11	9	49	50	0	0	0	0	0	0	0	0						
100	SIMAS	15	10	5	11	15	0	0	0	0	0	0	0	0						
	ICAPS	50	11	9	49	50	0	0	0	0	0	0	0	0						
101	SIMAS	15	10	5	11	15	0	0	0	0	0	0	0	0						
	ICAPS	50	12	10	49	50	0	0	0	0	0	0	0	0						
102	SIMAS	16	13	6	10	16	0	0	0	0	0	0	0	0						
	ICAPS	50	14	10	47	50	0	0	0	0	0	0	0	0						
103	SIMAS	16	15	7	9	16	0	0	0	0	0	0	0	0						
	ICAPS	50	15	11	47	50	0	0	0	0	0	0	0	0						
104	SIMAS	16	15	7	9	16	0	0	0	0	0	0	0	0						
	ICAPS	51	17	12	47	51	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

FOH	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
105	ICAPS	51	18	13	47	51	0	0	0	0	0	0	0	0

ENVIRONMENT	1	SONAR	DEPTH	20
		SENSOR	TARGET	DEPTH
				60

349

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 20
 SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
86	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
87	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1				SONAR DEPTH 60													
SENSOR 9				TARGET DEPTH 60													
FOM	DATA	RMAX	INTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
93	SIMAS	37	37	37	0	0	0	0	0	0	0	0	0	0			
	ICAPS	42	42	42	0	0	0	0	0	0	0	0	0	0			
94	SIMAS	37	37	37	0	0	0	0	0	0	0	0	0	0			
	ICAPS	45	45	45	0	0	0	0	0	0	0	0	0	0			
95	SIMAS	37	37	37	0	0	0	0	0	0	0	0	0	0			
	ICAPS	47	47	47	0	0	0	0	0	0	0	0	0	0			
96	SIMAS	43	39	37	42	43	0	0	0	0	0	0	0	0			
	ICAPS	49	49	49	0	0	0	0	0	0	0	0	0	0			
97	SIMAS	43	41	38	41	43	0	0	0	0	0	0	0	0			
	ICAPS	52	52	52	0	0	0	0	0	0	0	0	0	0			
98	SIMAS	44	44	44	0	0	0	0	0	0	0	0	0	0			
	ICAPS	54	54	54	0	0	0	0	0	0	0	0	0	0			
99	SIMAS	45	45	45	0	0	0	0	0	0	0	0	0	0			
	ICAPS	56	56	56	0	0	0	0	0	0	0	0	0	0			
100	SIMAS	45	45	45	0	0	0	0	0	0	0	0	0	0			
	ICAPS	58	58	58	0	0	0	0	0	0	0	0	0	0			

SENSOR PERFORMANCE CHART

ENVIRONMENT 1		SONAR DEPTH 60																					
SENSOR 9		TARGET DEPTH 600																					
FOM	DATA	RMAX	RCTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62									
93	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0	0								
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0	0								
95	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0	0								
96	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0	0								
97	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0	0								
98	SIMAS	14	11	14	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0	0								
99	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0	0								
100	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	39	15	12	37	39	0	0	0	0	0	0	0	0	0								

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
 SENSOR 9 TARGET DEPTH 60

FDM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
95	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
96	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
97	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
98	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
99	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
100	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1		SONAR DEPTH 600												
SENSOR 9		TARGET DEPTH 600												
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	12	10	49	50	0	0	0	0	0	0	0	0
94	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	15	11	47	50	0	0	0	0	0	0	0	0
95	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	16	12	47	50	0	0	0	0	0	0	0	0
96	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	16	12	47	50	0	0	0	0	0	0	0	0
97	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	18	13	47	51	0	0	0	0	0	0	0	0
98	SIMAS	15	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	20	14	46	51	0	0	0	0	0	0	0	0
99	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	52	22	15	46	52	0	0	0	0	0	0	0	0
100	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	52	22	15	46	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1		SONAR DEPTH 200		SENSOR 15		TARGET DEPTH 60																	
FOH	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62									
86	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
87	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
88	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
89	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
90	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
91	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	47	47	8	40	47	0	0	0	0	0	0	0	0	0								
92	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	49	49	8	36	49	0	0	0	0	0	0	0	0	0								
93	SIMAS	26	26	26	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	51	51	8	33	51	0	0	0	0	0	0	0	0	0								
94	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	52	52	8	30	52	0	0	0	0	0	0	0	0	0								

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1				SONAR DEPTH 200											
SENSOR 15				TARGET DEPTH 500											
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
86	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0	
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0	
87	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0	
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0	
88	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0	
	ICAFS	11	11	11	0	0	0	0	0	0	0	0	0	0	
89	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	
	ICAFS	12	12	12	0	0	0	0	0	0	0	0	0	0	
90	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0	
	ICAFS	13	13	13	0	0	0	0	0	0	0	0	0	0	
91	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0	
	ICAFS	14	14	14	0	0	0	0	0	0	0	0	0	0	
92	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0	
	ICAFS	15	15	15	0	0	0	0	0	0	0	0	0	0	
93	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0	
	ICAFS	41	22	16	36	41	0	0	0	0	0	0	0	0	
94	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0	
	ICAFS	42	28	17	32	42	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	INTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0
91	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAFS	11	11	11	0	0	0	0	0	0	0	0	0	0
92	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAFS	12	12	12	0	0	0	0	0	0	0	0	0	0
93	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAFS	42	20	12	35	42	0	0	0	0	0	0	0	0
94	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAFS	43	25	12	31	43	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	13	8	6	12	13	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	13	11	9	12	13	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0
87	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	26	18	16	25	26	0	0	0	0	0	0	0	0
	ICAFS	44	13	11	43	44	0	0	0	0	0	0	0	0
91	SIMAS	26	19	17	25	26	0	0	0	0	0	0	0	0
	ICAFS	45	15	12	43	45	0	0	0	0	0	0	0	0
92	SIMAS	27	21	18	25	27	0	0	0	0	0	0	0	0
	ICAFS	46	19	12	40	46	0	0	0	0	0	0	0	0
93	SIMAS	27	23	18	23	27	0	0	0	0	0	0	0	0
	ICAFS	47	21	13	40	47	0	0	0	0	0	0	0	0
94	SIMAS	28	25	19	23	28	0	0	0	0	0	0	0	0
	ICAFS	47	28	15	34	38	40	47	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1		SONAR DEPTH 60																		
SENSOR 19		TARGET DEPTH 60																		
FUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
80	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0	0					
81	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0	0					
82	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
83	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0	0					
84	SIMAS	23	23	23	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0	0					
85	SIMAS	25	25	25	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0	0					
86	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	14	13	9	11	14	0	0	0	0	0	0	0	0	0					
87	SIMAS	31	31	31	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	15	15	15	0	0	0	0	0	0	0	0	0	0	0					
88	SIMAS	31	31	31	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	21	21	21	0	0	0	0	0	0	0	0	0	0	0					
89	SIMAS	32	32	32	0	0	0	0	0	0	0	0	0	0	0					
	ICAFS	41	29	25	36	37	40	41	0	0	0	0	0	0	0					
90	SIMAS	37	35	32	35	37	0	0	0	0	0	0	0	0	0					
	ICAFS	45	43	32	35	45	0	0	0	0	0	0	0	0	0					
91	SIMAS	40	39	33	35	40	0	0	0	0	0	0	0	0	0					
	ICAFS	50	50	50	0	0	0	0	0	0	0	0	0	0	0					

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	42	42	42	0	0	0	0	0	0	0	0	0	0
	ICAPS	51	51	51	0	0	0	0	0	0	0	0	0	0
93	SIMAS	46	46	46	0	0	0	0	0	0	0	0	0	0
	ICAPS	54	54	54	0	0	0	0	0	0	0	0	0	0
94	SIMAS	47	47	47	0	0	0	0	0	0	0	0	0	0
	ICAPS	57	57	57	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1				SONAR DEPTH 60																											
SENSOR 19				TARGET DEPTH 600																											
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62																	
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	0																
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	0																
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	0																
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	0																
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0																
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0	0																
86	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0	0																
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0	0																
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0	0																
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0	0																
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0	0																
91	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0	0																
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0	0																

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1		SONAR DEPTH 60															
SENSOR 19		TARGET DEPTH 600															
FDM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
92	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0	0		
	ICAFS	11	11	11	0	0	0	0	0	0	0	0	0	0	0		
93	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0	0		
	ICAFS	40	16	12	7	40	0	0	0	0	0	0	0	0	0		
94	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0	0		
	ICAFS	41	22	12	12	41	0	0	0	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 60

FDM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
89	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0
91	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 60

FUM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
93	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	40	15	12	38	40	0	0	0	0	0	0	0	0
94	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	41	21	12	33	41	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	15	14	9	11	15	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	48	10	8	47	48	0	0	0	0	0	0	0	0
87	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	48	10	8	47	48	0	0	0	0	0	0	0	0
88	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	13	9	46	49	0	0	0	0	0	0	0	0
89	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	16	10	44	49	0	0	0	0	0	0	0	0
90	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	49	16	10	44	49	0	0	0	0	0	0	0	0
91	SIMAS	28	22	17	24	28	0	0	0	0	0	0	0	0
	ICAPS	50	18	11	44	50	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOH	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	28	23	18	24	28	0	0	0	0	0	0	0	0
	ICAPS	51	21	12	43	51	0	0	0	0	0	0	0	0
93	SIMAS	28	24	19	24	28	0	0	0	0	0	0	0	0
	ICAPS	51	22	13	43	51	0	0	0	0	0	0	0	0
94	SIMAS	28	24	19	24	28	0	0	0	0	0	0	0	0
	ICAPS	51	27	14	37	38	41	51	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 23L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

[illegible]

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 23 L TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 600

FORM	DATA	RMAX	IRTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
 SENSOR 23 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 60

FUM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
83	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
86	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
87	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
88	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
 SENSOR 23 TARGET DEPTH 600

FQM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/6 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON

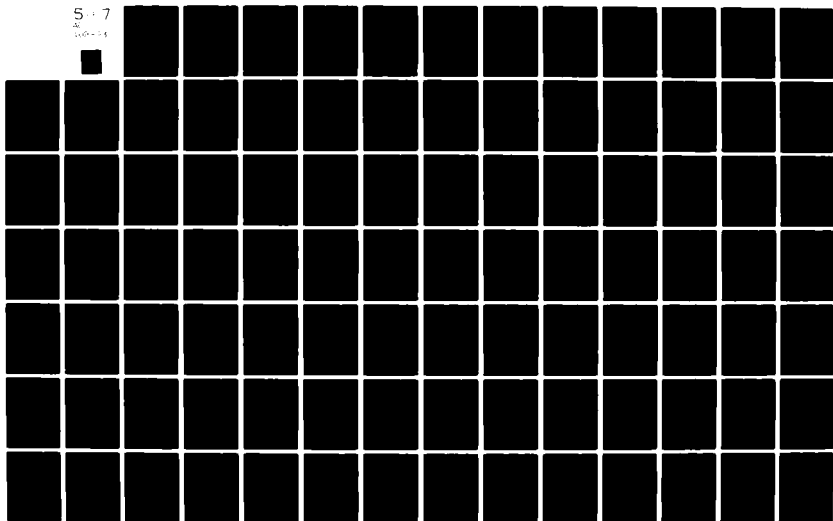
UNCLASSIFIED

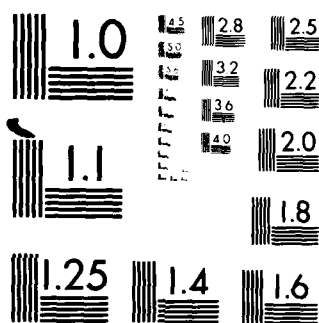
NORDA-TN-73-VOL-2

NL

5-7

100-10





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
 SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0
86	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	10	10	0	0	0	0	0	0	0	0	0	0
87	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	11	11	11	0	0	0	0	0	0	0	0	0	0
88	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAFS	12	12	12	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 23 H TARGET DEPTH 60

FOI	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
80	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAFS	10	9	7	9	10	0	0	0	0	0	0	0	0
82	SIMAS	20	19	17	19	20	0	0	0	0	0	0	0	0
	ICAFS	13	12	7	9	13	0	0	0	0	0	0	0	0
83	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAFS	13	12	7	9	13	0	0	0	0	0	0	0	0
84	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAFS	17	16	13	15	17	0	0	0	0	0	0	0	0
85	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0
	ICAFS	21	21	21	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 23H TARGET DEPTH 600

FOH	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 60
 SENSOR 23H TARGET DEPTH 600

FON	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
84	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
 SENSOR 23H TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

FOM	DATA	KMAX	KTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
83	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 1 SONAR DEPTH 300
 SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 1 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 600

FQM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
83	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0
84	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0
85	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	9	9	9	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT SENSOR	2	SONAR DEPTH		RCOUNT	R											
		DATA	KMAX	RTOTAL	20	21	22	23	24	25	26	27	28	29	30	31
96		SIMAS	23	18	15	21	23	23	23	23	23	23	23	23	23	23
		ICAPS	41	16	3	25	26	26	26	26	26	26	26	26	26	26
97		SIMAS	23	20	17	21	23	23	23	23	23	23	23	23	23	23
		ICAPS	41	17	3	25	26	26	26	26	26	26	26	26	26	26
98		SIMAS	23	21	17	20	23	23	23	23	23	23	23	23	23	23
		ICAPS	41	18	3	25	26	26	26	26	26	26	26	26	26	26
99		SIMAS	23	21	17	20	23	23	23	23	23	23	23	23	23	23
		ICAPS	41	18	3	25	26	26	26	26	26	26	26	26	26	26
100		SIMAS	26	25	17	19	26	26	26	26	26	26	26	26	26	26
		ICAPS	41	18	3	25	26	26	26	26	26	26	26	26	26	26
101		SIMAS	26	25	17	19	26	26	26	26	26	26	26	26	26	26
		ICAPS	41	18	3	25	26	26	26	26	26	26	26	26	26	26
102		SIMAS	47	28	26	46	47	47	47	47	47	47	47	47	47	47
		ICAPS	50	22	3	25	41	41	41	41	41	41	41	41	41	41
103		SIMAS	47	28	26	46	47	47	47	47	47	47	47	47	47	47
		ICAPS	50	22	3	25	41	41	41	41	41	41	41	41	41	41
104		SIMAS	47	29	27	46	47	47	47	47	47	47	47	47	47	47
		ICAPS	50	24	3	25	43	43	43	43	43	43	43	43	43	43
105		SIMAS	47	29	27	46	47	47	47	47	47	47	47	47	47	47
		ICAPS	50	27	3	25	46	46	46	46	46	46	46	46	46	46
106		SIMAS	47	29	27	46	47	47	47	47	47	47	47	47	47	47
		ICAPS	50	27	3	25	46	46	46	46	46	46	46	46	46	46
107		SIMAS	47	29	27	46	47	47	47	47	47	47	47	47	47	47
		ICAPS	53	29	3	25	46	46	46	46	46	46	46	46	46	46

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT		SONAR DEPTH																	
SENSOR		TARGET DEPTH																	
FUM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
	SIMAS	47	30	28	46	47	0	0	0	0	0	0	0	0					
108	ICAFS	56	31	3	25	46	49	50	52	53	55	56	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 2		SONAR DEPTH 20		TARGET DEPTH 600																		
SENSOR 2																						
FUM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62								
96	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0								
	ICAFS	39	20	6	20	27	31	34	38	39	0	0	0	0								
97	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	39	23	6	20	27	30	36	38	39	0	0	0	0	0	0	0	0	0	0	0	
98	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	40	25	6	20	27	29	36	38	40	0	0	0	0	0	0	0	0	0	0	0	
99	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	40	27	6	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
100	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	40	27	6	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
101	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	40	27	6	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
102	SIMAS	42	9	6	40	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	40	28	7	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
103	SIMAS	45	12	6	40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	40	28	7	20	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
104	SIMAS	45	12	6	40	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	41	29	7	20	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
105	SIMAS	47	14	6	40	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	46	31	7	20	41	45	46	0	0	0	0	0	0	0	0	0	0	0	0	0	
106	SIMAS	47	14	6	40	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	46	33	7	20	41	43	46	0	0	0	0	0	0	0	0	0	0	0	0	0	
107	SIMAS	48	15	6	40	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAFS	49	36	7	20	46	48	49	0	0	0	0	0	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
108	SIMAS	48	15	6	40	48	0	0	0	0	0	0	0	0
	ICAFS	49	36	7	20	46	48	49	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FOI	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	29	9	3	24	29	0	0	0	0	0	0	0	0
94	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	29	9	3	24	29	0	0	0	0	0	0	0	0
95	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	35	13	3	24	30	33	35	0	0	0	0	0	0
96	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	35	13	3	24	30	33	35	0	0	0	0	0	0
97	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAFS	35	13	3	24	30	33	35	0	0	0	0	0	0
98	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAFS	35	14	3	24	30	32	35	0	0	0	0	0	0
99	SIMAS	21	20	17	19	21	0	0	0	0	0	0	0	0
	ICAFS	41	18	3	24	36	40	41	0	0	0	0	0	0
100	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAFS	41	19	3	24	37	40	41	0	0	0	0	0	0
101	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAFS	41	20	3	24	37	39	41	0	0	0	0	0	0
102	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAFS	41	20	3	24	37	39	41	0	0	0	0	0	0
103	SIMAS	26	25	17	19	26	0	0	0	0	0	0	0	0
	ICAFS	41	20	3	24	37	39	41	0	0	0	0	0	0
104	SIMAS	27	26	17	19	27	0	0	0	0	0	0	0	0
	ICAFS	41	20	3	24	37	39	41	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	27	26	17	19	27	0	0	0	0	0	0	0	0
	ICAFS	41	20	3	24	37	39	41	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

FUM	DATA	RMAX	RIOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
94	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0
95	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	33	12	5	20	22	26	27	32	33	0	0	0	0
96	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	33	14	5	20	22	24	27	32	33	0	0	0	0
97	SIMAS	41	9	6	39	41	0	0	0	0	0	0	0	0
	ICAPS	33	16	5	20	27	31	33	0	0	0	0	0	0
98	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0
	ICAPS	33	18	6	20	28	31	33	0	0	0	0	0	0
99	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0
	ICAPS	34	20	6	20	28	30	34	0	0	0	0	0	0
100	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	23	7	20	28	30	36	0	0	0	0	0	0
101	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0
102	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0
103	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0
104	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0
	ICAPS	36	25	8	20	36	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT		2	SONAR DEPTH		60												
SENSOR		6	TARGET DEPTH		600												
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
10%	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0			
	ICAFS	40	29	8	20	40	0	0	0	0	0	0	0	0			

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SENSOR 6		SONAR DEPTH 600 TARGET DEPTH 60																	
FOM	DATA	KMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
93	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0					
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0					
94	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0					
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0					
95	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0					
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0					
96	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0					
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0					
97	SIMAS	43	11	6	39	43	0	0	0	0	0	0	0	0					
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0					
98	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0					
	ICAPS	21	7	5	20	21	0	0	0	0	0	0	0	0					
99	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0					
	ICAPS	33	10	5	20	22	32	33	0	0	0	0	0	0					
100	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0					
	ICAPS	33	12	5	20	22	26	27	32	33	0	0	0	0					
101	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0					
	ICAPS	33	15	5	20	27	32	33	0	0	0	0	0	0					
102	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0					
	ICAPS	33	17	6	20	27	31	33	0	0	0	0	0	0					
103	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0					
	ICAPS	33	18	6	20	28	31	33	0	0	0	0	0	0					
104	SIMAS	44	13	7	39	44	0	0	0	0	0	0	0	0					
	ICAPS	36	22	6	20	28	30	36	0	0	0	0	0	0					

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	45	14	7	39	45	0	0	0	0	0	0	0	0
	ICAFS	36	23	7	20	28	30	36	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	39	12	6	8	9	35	36	38	39	0	0	0	0
	ICAPS	65	53	44	50	54	62	65	0	0	0	0	0	0
94	SIMAS	39	13	6	8	10	35	36	38	39	0	0	0	0
	ICAPS	65	54	45	50	54	62	65	0	0	0	0	0	0
95	SIMAS	39	13	6	8	10	35	36	38	39	0	0	0	0
	ICAPS	65	55	45	50	55	62	65	0	0	0	0	0	0
96	SIMAS	39	14	6	8	10	35	39	0	0	0	0	0	0
	ICAPS	78	60	46	50	55	62	65	67	68	77	78	0	0
97	SIMAS	39	15	6	8	11	35	39	0	0	0	0	0	0
	ICAPS	78	68	46	48	55	60	68	74	78	0	0	0	0
98	SIMAS	39	16	11	35	39	0	0	0	0	0	0	0	0
	ICAPS	89	72	46	48	57	60	68	74	78	88	89	0	0
99	SIMAS	39	17	12	35	39	0	0	0	0	0	0	0	0
	ICAPS	91	78	58	60	69	73	78	88	91	0	0	0	0
100	SIMAS	40	18	12	35	40	0	0	0	0	0	0	0	0
	ICAPS	91	78	58	60	69	73	78	88	91	0	0	0	0
101	SIMAS	40	18	12	35	40	0	0	0	0	0	0	0	0
	ICAPS	102	82	69	72	78	88	91	101	102	0	0	0	0
102	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	88	70	72	81	87	91	100	102	0	0	0	0
103	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	90	70	72	83	87	91	100	102	0	0	0	0
104	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
	ICAPS	102	90	70	72	83	87	91	100	102	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

FORM	DATA	KMAX	KTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	43	21	13	35	40	42	43	0	0	0	0	0	0
105	ICAPS	102	94	83	87	94	100	102	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2		SONAR DEPTH 20														
SENSOR 7		TARGET DEPTH 60														
FOM	DATA	RMAX	KTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62		
81	SIMAS	13	12	5	7	13	0	0	0	0	0	0	0	0		
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0		
82	SIMAS	13	12	5	7	13	0	0	0	0	0	0	0	0		
	ICAFS	24	4	2	23	24	0	0	0	0	0	0	0	0		
83	SIMAS	13	12	5	7	13	0	0	0	0	0	0	0	0		
	ICAFS	35	6	2	23	24	34	35	0	0	0	0	0	0		
84	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0		
	ICAFS	35	9	2	23	24	26	27	33	35	0	0	0	0		
85	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0		
	ICAFS	35	9	2	23	24	26	27	33	35	0	0	0	0		
86	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0		
	ICAFS	35	9	2	23	24	26	27	33	35	0	0	0	0		
87	SIMAS	45	20	14	17	18	21	22	44	45	0	0	0	0		
	ICAFS	36	12	2	23	27	32	36	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 20
 SENSOR 7 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	KCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
83	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
84	SIMAS	41	9	6	39	41	0	0	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
85	SIMAS	44	11	6	39	41	43	44	0	0	0	0	0	0
	ICAPS	33	6	4	32	33	0	0	0	0	0	0	0	0
86	SIMAS	44	11	6	39	41	43	44	0	0	0	0	0	0
	ICAPS	33	8	6	32	33	0	0	0	0	0	0	0	0
87	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAPS	34	11	6	20	21	32	34	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2		SONAR DEPTH 60																	
SENSOR 9		TARGET DEPTH 60																	
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
93	SIMAS	48	29	18	20	22	24	26	44	48	0	0	0	0					
	ICAFS	49	25	4	22	37	30	41	48	49	0	0	0	0					
94	SIMAS	48	30	22	24	26	44	48	0	0	0	0	0	0					
	ICAFS	49	29	4	22	44	18	49	0	0	0	0	0	0					
95	SIMAS	49	33	27	44	49	0	0	0	0	0	0	0	0					
	ICAFS	57	34	4	22	46	48	50	56	57	0	0	0	0					
96	SIMAS	49	33	27	44	49	0	0	0	0	0	0	0	0					
	ICAFS	69	39	4	22	50	52	53	56	57	68	69	0	0					
97	SIMAS	60	35	27	44	49	59	60	0	0	0	0	0	0					
	ICAFS	69	40	4	22	53	56	57	68	69	0	0	0	0					
98	SIMAS	60	40	28	44	53	59	60	0	0	0	0	0	0					
	ICAFS	69	40	4	22	53	56	57	68	69	0	0	0	0					
99	SIMAS	60	44	28	44	57	59	60	0	0	0	0	0	0					
	ICAFS	69	43	4	22	54	56	58	67	69	0	0	0	0					
100	SIMAS	60	47	30	44	60	0	0	0	0	0	0	0	0					
	ICAFS	69	45	4	22	54	56	60	67	69	0	0	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 9 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	45	15	7	38	45	0	0	0	0	0	0	0	0
	ICAFS	40	27	6	19	21	23	40	0	0	0	0	0	0
94	SIMAS	46	16	7	38	46	0	0	0	0	0	0	0	0
	ICAFS	42	30	6	19	42	0	0	0	0	0	0	0	0
95	SIMAS	47	17	7	38	47	0	0	0	0	0	0	0	0
	ICAFS	47	33	6	19	42	47	49	0	0	0	0	0	0
96	SIMAS	59	19	7	38	47	58	59	0	0	0	0	0	0
	ICAFS	49	36	6	19	44	46	49	0	0	0	0	0	0
97	SIMAS	60	22	7	38	47	51	52	58	60	0	0	0	0
	ICAFS	67	38	6	19	44	46	49	66	67	0	0	0	0
98	SIMAS	60	26	7	38	48	50	52	54	55	58	60	0	0
	ICAFS	67	40	7	19	49	66	67	0	0	0	0	0	0
99	SIMAS	60	28	7	38	55	58	60	0	0	0	0	0	0
	ICAFS	67	44	8	19	52	66	67	0	0	0	0	0	0
100	SIMAS	60	29	7	38	56	58	60	0	0	0	0	0	0
	ICAFS	67	46	8	19	54	66	67	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	46	16	7	38	46	0	0	0	0	0	0	0	0
	ICAPS	40	27	6	19	21	23	40	0	0	0	0	0	0
94	SIMAS	46	16	7	38	46	0	0	0	0	0	0	0	0
	ICAPS	42	29	6	19	21	23	42	0	0	0	0	0	0
95	SIMAS	47	17	7	38	47	0	0	0	0	0	0	0	0
	ICAPS	49	32	6	19	42	48	49	0	0	0	0	0	0
96	SIMAS	59	19	7	38	47	58	59	0	0	0	0	0	0
	ICAPS	49	36	6	19	44	46	49	0	0	0	0	0	0
97	SIMAS	60	22	7	38	47	51	52	58	60	0	0	0	0
	ICAPS	67	38	6	19	44	45	49	66	67	0	0	0	0
98	SIMAS	60	27	7	38	48	50	55	58	60	0	0	0	0
	ICAPS	67	40	7	19	49	66	67	0	0	0	0	0	0
99	SIMAS	60	28	7	38	55	58	60	0	0	0	0	0	0
	ICAPS	67	41	8	19	49	66	67	0	0	0	0	0	0
100	SIMAS	60	29	7	38	56	58	60	0	0	0	0	0	0
	ICAPS	67	46	8	19	54	66	67	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2		SONAR DEPTH 200		SONAR DEPTH 60																	
SENSOR 15		TARGET DEPTH 200		TARGET DEPTH 60																	
TUM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
74	SIMAS	12	10	5	8	12	0	0	0	0	0	0	0	0							
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0							
75	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0							
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0							
76	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0							
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0							
77	SIMAS	46	21	16	41	43	45	46	0	0	0	0	0	0							
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0							
78	SIMAS	46	25	16	21	23	41	46	0	0	0	0	0	0							
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0							
79	SIMAS	46	30	17	20	26	41	46	0	0	0	0	0	0							
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0							
80	SIMAS	48	37	28	40	48	0	0	0	0	0	0	0	0							
	ICAFS	35	11	4	26	27	29	30	33	35	0	0	0	0							
81	SIMAS	48	42	29	33	35	39	48	0	0	0	0	0	0							
	ICAFS	35	14	4	24	30	33	35	0	0	0	0	0	0							
82	SIMAS	66	49	30	32	36	39	48	59	60	65	66	0	0							
	ICAFS	42	20	4	23	30	32	36	40	42	0	0	0	0							
83	SIMAS	66	57	53	59	60	65	66	0	0	0	0	0	0							
	ICAFS	70	29	4	23	30	32	36	40	44	49	52	68	70							
84	SIMAS	66	62	60	65	66	0	0	0	0	0	0	0	0							
	ICAFS	70	36	4	20	36	40	46	49	52	67	70	0	0							
85	SIMAS	132	66	60	64	67	131	132	0	0	0	0	0	0							
	ICAFS	104	50	4	19	46	49	57	67	71	81	82	103	104							

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	133	75	60	63	68	92	93	126	128	130	133	0	0
	ICAFS	105	56	4	19	59	66	71	81	82	103	105	0	0
87	SIMAS	137	83	70	92	94	126	128	130	133	135	137	0	0
	ICAFS	105	60	4	19	59	63	64	66	72	81	82	102	105
88	SIMAS	169	94	71	77	79	90	95	125	128	130	133	135	138
	ICAFS	138	75	5	18	61	63	74	80	84	100	105	136	138
89	SIMAS	181	106	71	77	82	89	95	124	138	168	170	178	181
	ICAFS	138	82	5	18	75	77	84	86	87	100	105	136	138
90	SIMAS	181	117	72	76	83	89	97	102	105	119	120	124	138
	ICAFS	138	85	5	18	75	77	84	86	87	96	97	99	105
91	SIMAS	183	126	72	75	83	89	97	101	106	119	120	124	139
	ICAFS	140	95	5	18	75	77	88	96	110	136	140	0	0
92	SIMAS	183	141	73	75	84	88	97	99	108	113	115	118	120
	ICAFS	140	100	5	18	75	77	89	96	111	116	117	135	140
93	SIMAS	184	155	84	88	109	111	121	123	140	165	184	0	0
	ICAFS	165	110	6	8	75	77	91	96	113	116	117	119	120
94	SIMAS	184	159	85	87	140	165	184	0	0	0	0	0	0
	ICAFS	165	129	8	18	75	77	91	95	114	116	124	126	130

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 500

FUM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	42	7	5	41	42	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	42	7	5	41	42	0	0	0	0	0	0	0	0
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0
80	SIMAS	42	7	5	41	42	0	0	0	0	0	0	0	0
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	46	13	7	41	46	0	0	0	0	0	0	0	0
	ICAFS	40	11	7	32	33	39	40	0	0	0	0	0	0
82	SIMAS	50	17	7	39	46	49	50	0	0	0	0	0	0
	ICAFS	43	16	8	32	35	39	40	42	43	0	0	0	0
83	SIMAS	50	18	7	38	46	49	50	0	0	0	0	0	0
	ICAFS	48	33	8	21	26	28	37	39	43	45	48	0	0
84	SIMAS	50	18	7	38	46	49	50	0	0	0	0	0	0
	ICAFS	48	39	9	18	43	45	48	0	0	0	0	0	0
85	SIMAS	137	26	7	38	46	49	51	59	60	129	133	0	0
	ICAFS	70	45	9	17	42	68	70	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 300

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
36	SIMAS	133	36	7	38	47	49	51	59	60	65	66	84	86
	ICAFS	102	64	10	16	53	57	58	61	62	65	71	80	81
87	SIMAS	133	38	7	38	51	59	61	65	66	84	86	88	90
	ICAFS	103	73	10	15	62	64	72	80	81	100	103	0	0
88	SIMAS	179	51	7	36	51	57	61	64	66	84	90	125	133
	ICAFS	106	82	11	15	62	64	74	80	84	100	106	0	0
89	SIMAS	179	43	7	36	61	64	66	84	90	120	121	123	133
	ICAFS	106	89	11	14	74	76	78	80	84	98	106	0	0
90	SIMAS	181	61	8	36	62	64	66	83	93	118	134	136	137
	ICAFS	138	105	78	80	85	89	90	94	106	117	118	121	122
91	SIMAS	181	67	9	35	66	83	93	118	134	136	140	168	172
	ICAFS	140	123	85	88	106	108	109	111	112	114	115	117	124
92	SIMAS	186	69	11	35	68	83	93	118	134	136	142	165	172
	ICAFS	140	129	85	88	109	111	112	114	115	117	124	126	127
93	SIMAS	186	100	11	35	68	83	93	118	142	165	172	174	181
	ICAFS	166	142	85	87	112	114	127	129	130	133	140	144	146
94	SIMAS	197	109	11	35	68	83	94	100	101	118	142	164	186
	ICAFS	176	120	112	114	140	142	150	156	157	162	163	165	167

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	43	8	6	42	43	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	12	8	42	43	45	46	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	47	17	9	40	47	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	49	20	10	40	49	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	49	22	12	40	49	0	0	0	0	0	0	0	0
	ICAPS	34	10	5	30	34	0	0	0	0	0	0	0	0
83	SIMAS	49	25	14	39	49	0	0	0	0	0	0	0	0
	ICAPS	42	17	6	29	36	40	42	0	0	0	0	0	0
84	SIMAS	60	32	18	38	49	59	60	0	0	0	0	0	0
	ICAPS	44	24	6	24	26	29	36	38	44	0	0	0	0
85	SIMAS	12	41	21	38	49	59	60	65	66	87	88	127	128
	ICAPS	76	36	6	22	26	29	44	46	47	50	52	66	67

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2		SONAR DEPTH 500		SONAR DEPTH 60																	
SENSOR 15		TARGET DEPTH		TARGET DEPTH																	
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
86	SIMAS	129	51	25	37	52	59	60	64	66	87	88	127	129							
	ICAFS	71	45	6	19	44	46	48	50	52	57	58	66	67							
87	SIMAS	133	69	30	37	61	64	67	87	90	127	129	131	133							
	ICAFS	71	53	6	18	53	55	58	65	71	0	0	0	0							
88	SIMAS	179	82	61	64	67	97	91	127	129	131	134	137	138							
	ICAFS	105	61	6	17	60	65	72	103	105	0	0	0	0							
89	SIMAS	180	93	61	63	67	87	92	124	125	127	129	131	134							
	ICAFS	122	76	6	17	72	81	83	99	101	103	108	121	122							
90	SIMAS	181	104	68	87	92	118	120	122	125	127	129	131	134							
	ICAFS	122	78	6	17	73	81	83	99	108	121	122	0	0							
91	SIMAS	182	112	68	87	93	118	120	122	129	131	140	166	167							
	ICAFS	139	95	6	16	73	76	77	79	85	88	89	98	108							
92	SIMAS	184	119	68	87	94	118	129	131	140	164	184	0	0							
	ICAFS	139	107	6	16	74	76	86	88	90	95	96	98	109							
93	SIMAS	185	124	69	97	96	118	140	164	185	0	0	0	0							
	ICAFS	140	111	6	14	74	76	90	95	96	98	109	113	117							
94	SIMAS	198	137	69	87	105	118	140	163	184	197	198	0	0							
	ICAFS	141	120	6	14	74	76	96	98	117	121	125	133	141							

SENSOR PERFORMANCE CHART

ENVIRONMENT 2				SONAR DEPTH 500										
SENSOR 15				TARGET DEPTH 600										
FORM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	7	5	13	14	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	9	5	13	14	16	17	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	10	10	5	13	14	16	18	0	0	0	0	0	0
78	SIMAS	43	11	8	41	43	0	0	0	0	0	0	0	0
	ICAPS	18	12	5	12	18	0	0	0	0	0	0	0	0
79	SIMAS	43	13	8	37	38	41	43	0	0	0	0	0	0
	ICAPS	35	24	7	12	21	29	35	0	0	0	0	0	0
80	SIMAS	48	17	8	37	38	41	43	45	48	0	0	0	0
	ICAPS	36	27	7	11	21	28	36	0	0	0	0	0	0
81	SIMAS	48	19	9	37	38	41	48	0	0	0	0	0	0
	ICAPS	50	34	7	11	21	27	36	44	47	49	50	0	0
82	SIMAS	48	19	9	37	38	41	48	0	0	0	0	0	0
	ICAPS	50	46	22	26	38	40	50	0	0	0	0	0	0
83	SIMAS	48	21	430	37	48	0	0	0	0	0	0	0	0
	ICAPS	67	62	50	52	53	58	67	0	0	0	0	0	0
84	SIMAS	48	21	9	37	48	0	0	0	0	0	0	0	0
	ICAPS	103	77	53	56	70	76	77	79	81	89	90	102	103
85	SIMAS	100	28	9	37	50	125	129	0	0	0	0	0	0
	ICAPS	107	96	82	85	86	89	90	93	94	97	98	101	103

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2		SONAR DEPTH 500		SONAR DEPTH 600																	
SENSOR 15		TARGET DEPTH		TARGET DEPTH																	
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
86	SIMAS	134	34	9	37	50	58	61	125	129	133	134	0	0							
	ICAPS	136	107	83	85	86	89	90	93	94	97	98	101	107							
87	SIMAS	181	51	9	37	52	58	61	64	67	84	85	88	89							
	ICAPS	139	124	86	88	90	92	111	115	116	118	123	133	139							
88	SIMAS	181	66	10	37	67	80	82	84	85	88	89	118	119							
	ICAPS	179	142	112	114	124	128	130	132	140	146	147	149	151							
89	SIMAS	181	80	10	34	35	37	67	80	82	84	85	88	90							
	ICAPS	200	164	112	114	130	132	141	145	147	149	151	153	154							
90	SIMAS	183	89	10	34	35	37	67	80	86	88	90	92	93							
	ICAPS	200	185	130	132	147	149	171	174	175	177	183	191	192							
91	SIMAS	183	93	10	33	35	37	67	80	86	88	93	118	120							
	ICAPS	200	193	171	173	175	177	184	186	187	191	193	195	200							
92	SIMAS	183	103	13	33	35	37	67	80	86	88	93	118	120							
	ICAPS	200	196	171	173	175	177	188	191	200	0	0	0	0							
93	SIMAS	183	107	13	33	35	37	67	80	86	88	95	118	138							
	ICAPS	200	199	189	191	200	0	0	0	0	0	0	0	0							
94	SIMAS	197	115	13	32	68	80	86	88	95	102	103	118	136							
	ICAPS	200	199	189	191	200	0	0	0	0	0	0	0	0							

SENSOR PERFORMANCE CHART

ENVIRONMENT 2				SONAR DEPTH 60															
SENSOR 19				TARGET DEPTH 60															
FUM	DATA	RMAX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
U0	SIMAS	48	25	14	22	25	42	48	0	0	0	0	0	0	0				
	ICAFS	35	12	2	23	29	33	35	0	0	0	0	0	0	0				
81	SIMAS	48	28	15	22	26	41	48	0	0	0	0	0	0	0				
	ICAFS	35	14	2	21	29	33	35	0	0	0	0	0	0	0				
82	SIMAS	48	35	15	18	26	35	37	41	48	0	0	0	0	0				
	ICAFS	69	19	3	21	29	31	35	68	69	0	0	0	0	0				
83	SIMAS	56	40	15	18	26	31	32	35	37	41	49	55	56					
	ICAFS	69	29	3	21	35	41	45	47	48	50	51	68	69					
84	SIMAS	66	51	15	17	26	30	38	41	50	54	56	60	61					
	ICAFS	105	39	3	21	35	41	45	47	51	53	56	67	70					
85	SIMAS	127	61	15	17	27	30	38	40	50	54	61	65	67					
	ICAFS	105	46	3	21	37	41	45	47	56	58	59	67	70					
86	SIMAS	136	70	27	29	38	40	51	53	62	65	69	91	92					
	ICAFS	105	58	3	20	45	47	56	58	60	67	75	80	82					
87	SIMAS	136	72	27	29	38	40	62	65	69	91	93	126	127					
	ICAFS	124	69	3	19	45	47	62	64	65	67	75	77	78					
88	SIMAS	169	85	27	29	62	65	69	79	80	91	94	126	127					
	ICAFS	138	82	4	19	75	77	82	84	85	97	99	101	105					
89	SIMAS	183	96	63	65	69	78	81	90	94	125	127	129	137					
	ICAFS	139	90	4	19	75	77	82	84	88	97	105	122	125					
90	SIMAS	183	125	63	65	70	78	81	90	95	103	105	124	137					
	ICAFS	139	95	4	19	75	77	82	84	88	90	91	97	105					
91	SIMAS	183	133	70	78	82	90	95	103	105	119	120	124	137					
	5	140	131	4	19	75	77	91	97	105	107	109	116	117					

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	KTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	183	124	70	78	82	90	97	102	106	116	120	123	138
	ICAFS	140	106	4	19	75	77	91	97	105	107	110	112	113
93	SIMAS	183	133	71	77	82	90	97	99	106	114	120	123	138
	ICAFS	140	115	4	6	7	19	75	77	92	97	113	115	117
94	SIMAS	183	142	74	77	82	90	106	111	121	123	138	165	169
	ICAFS	124	129	4	6	7	19	75	77	92	94	125	127	128

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 19 TARGET DEPTH 600

FUN	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
60	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	48	10	6	40	41	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
82	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
83	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	40	15	6	30	33	35	37	39	40	0	0	0	0
84	SIMAS	130	16	6	40	45	47	48	129	130	0	0	0	0
	ICAPS	43	20	6	29	30	39	43	0	0	0	0	0	0
85	SIMAS	132	26	6	40	45	47	50	59	60	65	66	86	87
	ICAPS	43	23	6	23	25	29	37	39	43	0	0	0	0
86	SIMAS	132	33	6	37	50	59	61	65	66	84	87	129	132
	ICAPS	71	39	6	22	25	29	46	48	50	65	71	0	0
87	SIMAS	179	43	6	37	52	54	57	59	61	65	66	84	89
	ICAPS	102	56	6	18	46	48	55	57	59	65	71	100	102
88	SIMAS	179	51	6	37	52	54	51	65	67	84	89	129	132
	ICAPS	102	62	6	17	41	48	55	57	59	64	72	79	80
89	SIMAS	180	56	6	37	52	54	61	64	67	84	89	124	125
	ICAPS	102	71	6	17	61	63	72	79	84	99	102	0	0
90	SIMAS	180	65	6	36	61	64	67	84	89	124	135	138	141
	ICAPS	122	78	6	16	61	63	72	79	85	99	105	121	122
91	SIMAS	184	87	6	8	10	36	61	63	67	84	91	118	141
	ICAPS	139	93	6	16	74	78	85	99	108	121	125	135	139

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT		SONAR DEPTH																	
SENSOR 19		TARGET DEPTH																	
FDM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
92	SIMAS	184	94	10	36	61	63	68	84	93	118	141	163	164					
	ICAPS	139	107	7	16	87	94	95	97	108	110	111	120	125					
93	SIMAS	186	100	10	36	68	84	93	118	141	163	167	169	186					
	ICAPS	140	109	7	16	87	94	108	110	111	120	125	134	140					
94	SIMAS	187	101	10	36	68	84	93	118	141	163	167	169	187					
	ICAPS	141	122	8	16	87	90	91	94	113	115	125	133	141					

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 500
 SENSOR 19 TARGET DEPTH 60

FLM	DATA	KMAX	INITIAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	41	3	6	40	41	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	48	10	6	40	41	47	48	0	0	0	0	0	0
	ICAPS	33	8	5	31	33	0	0	0	0	0	0	0	0
82	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	33	9	6	31	33	0	0	0	0	0	0	0	0
83	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0
	ICAPS	40	15	6	30	33	35	37	39	40	0	0	0	0
84	SIMAS	130	18	6	40	45	47	48	65	66	129	130	0	0
	ICAPS	43	20	6	29	37	39	43	0	0	0	0	0	0
85	SIMAS	132	26	6	40	45	47	50	59	60	65	66	86	87
	ICAPS	43	23	6	23	25	29	37	39	43	0	0	0	0
86	SIMAS	132	33	6	37	50	59	61	65	66	84	87	129	132
	ICAPS	71	37	6	23	25	28	46	49	50	65	71	0	0
87	SIMAS	179	43	6	37	52	54	57	59	61	65	66	84	89
	ICAPS	102	55	6	18	46	48	52	54	55	57	59	65	71
88	SIMAS	179	51	6	37	52	54	61	65	67	84	89	129	132
	ICAPS	102	62	6	17	46	48	55	57	59	64	72	79	80
89	SIMAS	180	56	6	37	52	54	61	64	67	84	89	124	125
	ICAPS	102	71	6	17	61	63	72	79	84	99	102	0	0
90	SIMAS	180	67	6	36	61	64	67	84	89	124	135	138	141
	ICAPS	120	78	6	16	61	63	72	79	85	99	105	121	122
91	SIMAS	184	87	6	8	10	36	61	63	67	84	91	118	141
	ICAPS	139	93	6	16	74	78	85	99	108	121	125	135	139

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 60

ITEM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	184	94	10	36	61	63	68	84	93	118	141	163	164
	ICAFS	139	107	7	16	87	94	95	97	108	110	111	120	125
93	SIMAS	186	100	10	36	68	84	93	118	141	163	167	169	186
	ICAFS	140	109	7	16	87	94	108	110	111	120	125	134	140
94	SIMAS	187	101	10	36	68	84	93	118	141	163	167	169	187
	ICAFS	141	122	8	16	87	90	91	94	113	115	125	133	141

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 600

FUM	DATA	KMAX	KTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	47	17	9	39	40	42	47	0	0	0	0	0	0
	ICAFS	42	37	9	11	20	22	34	38	42	0	0	0	0
81	SIMAS	47	17	9	39	40	42	47	0	0	0	0	0	0
	ICAFS	62	51	9	11	20	22	45	50	52	54	55	60	62
82	SIMAS	47	18	10	39	40	42	47	0	0	0	0	0	0
	ICAFS	69	58	9	11	20	22	45	47	48	50	55	60	64
83	SIMAS	47	18	10	39	40	42	47	0	0	0	0	0	0
	ICAFS	105	69	9	11	20	22	45	47	58	60	66	68	70
84	SIMAS	131	22	11	39	40	42	47	129	131	0	0	0	0
	ICAFS	105	84	20	22	66	68	70	72	74	76	78	84	86
85	SIMAS	136	30	11	36	37	39	40	42	47	60	61	126	127
	ICAFS	117	99	20	22	66	68	70	72	74	76	82	84	86
86	SIMAS	179	42	11	34	37	39	40	42	48	60	61	64	66
	ICAFS	132	115	74	76	82	84	106	108	109	112	113	116	117
87	SIMAS	163	56	11	32	37	39	40	42	48	54	61	63	66
	ICAFS	142	131	74	76	82	84	110	112	118	120	123	126	128
88	SIMAS	183	67	11	32	48	50	51	54	61	63	66	82	83
	ICAFS	171	140	110	112	124	126	132	134	135	139	142	144	145
89	SIMAS	183	79	12	32	48	50	66	82	83	118	122	124	127
	ICAFS	171	153	132	134	135	137	145	154	156	158	159	166	168
90	SIMAS	183	88	12	32	67	80	83	94	95	118	122	124	127
	ICAFS	182	164	146	148	150	154	156	158	160	166	171	180	182
91	SIMAS	183	96	12	32	67	80	83	87	91	94	95	118	122
	ICAFS	186	173	152	154	156	158	160	166	171	173	174	180	186

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 600
 SENSOR 12 TARGET DEPTH 600

1	703	DATA	RMAX	RYOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
		SIMAS	184	104	13	32	67	78	83	87	95	118	122	124	127
	92	ICAFS	106	179	152	154	156	158	162	166	171	173	176	178	186
		SIMAS	184	110	14	32	67	78	83	87	95	118	122	124	139
	93	ICAFS	197	191	164	166	186	191	192	194	197	0	0	0	0
		SIMAS	197	120	14	31	67	78	83	87	97	104	105	118	122
	94	ICAFS	200	195	186	191	197	199	200	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2		SONAR DEPTH 60																			
SENSOR 23 L		TARGET DEPTH 60																			
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0	0						
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
74	SIMAS	13	6	3	11	13	0	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
75	SIMAS	13	7	3	10	13	0	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
76	SIMAS	13	7	3	10	13	0	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						

REVENUE CHART (CONT.)

LINE	ITEM	QTY	UNIT	PRICE	TOTAL	R40	R41	R42	R51	R52	R61	R62
77	1000	12		40	480	0	0	0	0	0	0	0
78	1000	12		40	480	0	0	0	0	0	0	0
79	1000	12		40	480	0	0	0	0	0	0	0
80	1000	12		40	480	0	0	0	0	0	0	0
81	1000	12		40	480	0	0	0	0	0	0	0
82	1000	12		40	480	0	0	0	0	0	0	0
83	1000	12		40	480	0	0	0	0	0	0	0
84	1000	12		40	480	0	0	0	0	0	0	0
85	1000	12		40	480	0	0	0	0	0	0	0
86	1000	12		40	480	0	0	0	0	0	0	0
87	1000	12		40	480	0	0	0	0	0	0	0
88	1000	12		40	480	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 23 L TARGET DEPTH 600

ITEM	DATA	RMAX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2		SONAR DEPTH 60																			
SENSOR 23 L		TARGET DEPTH 600																			
ITEM	DATA	KMAX	KTOTAL	KCONT	K21	K22	K31	K32	K41	K42	K51	K52	K61	K62							
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
79	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
80	SIMAS	41	8	6	40	41	0	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
81	SIMAS	48	16	6	40	41	47	48	0	0	0	0	0	0	0						
	ICAFS	33	9	6	31	33	0	0	0	0	0	0	0	0	0						
82	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0	0						
	ICAFS	33	9	6	31	33	0	0	0	0	0	0	0	0	0						
83	SIMAS	48	14	6	40	45	47	48	0	0	0	0	0	0	0						
	ICAFS	40	15	6	30	33	35	37	39	40	0	0	0	0	0						
84	SIMAS	130	16	6	40	45	47	48	129	130	0	0	0	0	0						
	ICAFS	43	20	6	29	37	39	43	0	0	0	0	0	0	0						
85	SIMAS	132	26	6	40	45	47	50	59	60	65	66	86	87							
	ICAFS	43	23	6	23	25	29	37	39	43	0	0	0	0	0						
86	SIMAS	132	33	6	37	50	59	61	65	66	84	87	129	132							
	ICAFS	71	39	6	22	25	28	46	48	50	65	71	0	0	0						
87	SIMAS	179	43	6	37	52	54	57	59	61	65	66	84	89							
	ICAFS	102	56	6	18	46	48	55	57	59	65	71	100	102							
88	SIMAS	179	51	6	37	52	54	61	65	67	84	89	129	132							
	ICAFS	102	62	6	17	46	48	55	57	59	64	72	79	80							

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
 SENSOR 23 L TARGET DEPTH 60

	FGM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	44	6	4	43	44	44	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 300
 SENSOR 23 TARGET 1000 60

FUN	DATA	EMAX	RETN	RCOUNT	R01	R02	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	44	1	5	43	44	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	40	11	6	43	45	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	40	12	13	43	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	40	13	15	41	48	0	0	0	0	0	0	0	0
	ICAPS	34	3	5	33	34	0	0	0	0	0	0	0	0
81	SIMAS	48	14	16	41	49	0	0	0	0	0	0	0	0
	ICAPS	34	3	5	33	34	34	34	0	0	0	0	0	0
82	SIMAS	48	15	17	41	49	0	0	0	0	0	0	0	0
	ICAPS	36	15	5	33	34	34	34	36	36	0	0	0	0
83	SIMAS	60	16	17	40	49	34	34	59	60	65	66	0	0
	ICAPS	36	17	5	33	34	34	34	3	0	0	0	0	0
84	SIMAS	60	17	19	41	49	34	34	59	60	65	66	0	0
	ICAPS	70	3	5	33	34	34	34	49	52	68	70	0	0
85	SIMAS	60	18	20	41	49	34	34	59	60	65	66	0	0
	ICAPS	71	3	5	33	34	34	34	49	52	67	71	0	0
86	SIMAS	135	19	20	41	49	34	34	59	60	65	66	130	131
	ICAPS	103	5	5	33	34	34	34	49	52	54	58	66	71
87	SIMAS	135	20	21	41	49	34	34	59	60	65	66	125	126
	ICAPS	105	10	5	33	34	34	34	49	50	64	71	100	105
88	SIMAS	179	21	22	41	49	34	34	59	60	65	66	134	136
	ICAPS	105	10	5	33	34	34	34	49	50	100	105	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
 SENSOR 23 TARGET DEPTH 500

FOM	DATA	RMAX	CRYSTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
55	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2		SONAR DEPTH 300												
SENSOR 23 L		TARGET DEPTH 600												
FOR	DATA	RMAX	WATOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
79	SIMAS	48	9	5	43	44	47	48	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
80	SIMAS	48	11	7	43	44	47	48	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	49	16	7	39	44	47	49	0	0	0	0	0	0
	ICAPS	40	10	8	39	40	0	0	0	0	0	0	0	0
82	SIMAS	49	17	7	39	44	46	49	0	0	0	0	0	0
	ICAPS	43	24	8	16	18	21	25	32	34	38	40	42	43
83	SIMAS	49	17	7	39	44	46	49	0	0	0	0	0	0
	ICAPS	43	36	8	15	40	42	43	0	0	0	0	0	0
84	SIMAS	49	19	8	39	49	0	0	0	0	0	0	0	0
	ICAPS	51	42	8	15	46	50	51	0	0	0	0	0	0
85	SIMAS	60	24	8	38	51	59	60	0	0	0	0	0	0
	ICAPS	70	57	9	14	51	57	58	63	70	0	0	0	0
86	SIMAS	89	29	8	38	51	59	60	65	66	87	89	0	0
	ICAPS	81	65	9	14	53	57	61	63	71	80	81	0	0
87	SIMAS	130	40	8	38	53	58	61	64	66	87	90	125	126
	ICAPS	104	74	9	13	61	63	72	79	81	102	104	0	0
88	SIMAS	179	48	8	35	36	38	53	58	61	64	67	87	90
	ICAPS	105	80	10	13	73	79	81	86	87	99	100	102	105

SENSOR PERFORMANCE CHART

ENVIRONMENT 2		SONAR DEPTH 60															
SENSOR 33H		TARGET DEPTH 60															
100	DATA	EMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	49	0	0	0	0	0	0	0	0	0	0	0	0	0		
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	49	0	0	0	0	0	0	0	0	0	0	0	0	0		
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0		
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		
73	SIMAS	11	5	3	10	11	0	0	0	0	0	0	0	0	0		
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2		SONAR DEPTH 60		SENSOR 2311		TARGET DEPTH 60														
FUN	DATA	RMAX	RYZL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
74	SIMAS	12	7	3	9	12	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0						
75	SIMAS	12	8	4	8	12	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0						
76	SIMAS	12	11	5	7	12	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0						
77	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0						
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0						
78	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0						
	ICAFS	35	8	2	25	26	34	35	0	0	0	0	0	0						
79	SIMAS	21	15	13	20	21	0	0	0	0	0	0	0	0						
	ICAFS	35	8	2	23	26	34	35	0	0	0	0	0	0						
80	SIMAS	46	22	13	19	22	42	46	0	0	0	0	0	0						
	ICAFS	35	11	2	23	29	34	35	0	0	0	0	0	0						
81	SIMAS	46	24	14	19	23	42	46	0	0	0	0	0	0						
	ICAFS	35	12	2	23	29	33	35	0	0	0	0	0	0						
82	SIMAS	46	26	14	17	23	42	46	0	0	0	0	0	0						
	ICAFS	35	12	2	23	29	33	35	0	0	0	0	0	0						
83	SIMAS	48	32	25	42	48	0	0	0	0	0	0	0	0						
	ICAFS	69	21	2	22	30	33	36	40	41	49	50	68	69						
84	SIMAS	49	36	26	31	32	42	49	0	0	0	0	0	0						
	ICAFS	69	24	2	22	30	32	36	40	41	47	50	68	69						
85	SIMAS	49	39	26	28	32	42	49	0	0	0	0	0	0						
	ICAFS	69	28	2	21	37	40	41	47	51	68	69	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 2311 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 60
 SENSOR 231 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	41	7	5	40	41	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	41	8	5	39	41	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	44	11	5	39	44	0	0	0	0	0	0	0	0
	ICAFS	33	6	4	32	33	0	0	0	0	0	0	0	0
81	SIMAS	44	11	5	39	44	0	0	0	0	0	0	0	0
	ICAFS	33	6	4	32	33	0	0	0	0	0	0	0	0
82	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAFS	33	6	4	32	33	0	0	0	0	0	0	0	0
83	SIMAS	44	12	6	39	44	0	0	0	0	0	0	0	0
	ICAFS	37	9	4	32	34	36	37	0	0	0	0	0	0
84	SIMAS	44	13	6	38	44	0	0	0	0	0	0	0	0
	ICAFS	37	13	6	31	37	0	0	0	0	0	0	0	0
85	SIMAS	50	15	6	38	44	49	50	0	0	0	0	0	0
	ICAFS	37	20	6	19	21	23	24	29	37	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
 SENSOR 2311 TARGET DEPTH 60

FUM	DATA	KMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2 SONAR DEPTH 300
SENSOR 23H TARGET DEPTH 60

FDM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	47	11	5	8	10	45	47	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	47	11	5	8	10	45	47	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	47	14	5	8	11	41	42	45	47	0	0	0	0
	ICAPS	35	6	3	33	35	0	0	0	0	0	0	0	0
81	SIMAS	47	16	5	7	11	40	42	45	47	0	0	0	0
	ICAPS	36	7	3	33	36	0	0	0	0	0	0	0	0
82	SIMAS	47	22	12	14	16	40	42	44	47	0	0	0	0
	ICAPS	36	8	3	32	36	0	0	0	0	0	0	0	0
83	SIMAS	48	25	16	40	48	0	0	0	0	0	0	0	0
	ICAPS	36	12	3	21	22	27	28	32	36	0	0	0	0
84	SIMAS	48	29	17	21	23	40	48	0	0	0	0	0	0
	ICAPS	42	20	5	20	22	27	30	32	36	40	42	0	0
85	SIMAS	60	31	17	21	23	40	48	59	60	0	0	0	0
	ICAPS	68	27	5	20	23	27	42	67	68	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 300
 SENSOR 23H TARGET DEPTH 600

FOM	DATA	RMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 2		SONAR DEPTH 300		SONAR DEPTH 600																	
SENSOR 2311		KMAX		RTOTAL		R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
FUM	DATA																				
74	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0	0					
75	SIMAS	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
76	SIMAS	5	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
77	SIMAS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
78	SIMAS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
79	SIMAS	42	8	6	6	41	42	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
80	SIMAS	42	9	7	7	41	42	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	6	6	0	0	0	0	0	0	0	0	0	0	0					
81	SIMAS	43	10	7	7	41	43	0	0	0	0	0	0	0	0	0					
	ICAPS	32	11	7	7	16	17	31	32	0	0	0	0	0	0	0					
82	SIMAS	43	11	7	7	40	43	0	0	0	0	0	0	0	0	0					
	ICAPS	33	14	7	7	16	17	24	25	31	33	0	0	0	0	0					
83	SIMAS	48	14	7	7	40	44	47	48	0	0	0	0	0	0	0					
	ICAPS	42	26	7	7	16	18	20	26	31	37	41	42	0	0	0					
84	SIMAS	48	16	7	7	39	45	47	48	0	0	0	0	0	0	0					
	ICAPS	42	32	7	7	16	28	30	38	40	42	0	0	0	0	0					
85	SIMAS	48	18	7	7	37	45	47	48	0	0	0	0	0	0	0					
	ICAPS	45	36	7	7	15	28	30	42	44	45	0	0	0	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 60

COM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	18	17	13	15	18	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
97	SIMAS	18	17	13	15	18	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
98	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	16	16	13	0	0	0	0	0	0	0	0	0	0
99	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
100	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
101	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
102	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
103	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0
104	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
105	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
106	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0
107	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	21	21	21	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT		3	SONAR DEPTH	20												
SENSOR		2	TARGET DEPTH	60												
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62		
	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0		
108	ICAFS	21	21	21	0	0	0	0	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART

ENVIRONMENT 3				SONAR DEPTH 20											
SENSOR 2				TARGET DEPTH 600											
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
96	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0	
97	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	6	6	6	0	0	0	0	0	0	0	0	0	0	
98	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0	
99	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0	
100	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0	
101	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0	
102	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0	
103	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0	
104	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0	
105	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0	
106	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0	
107	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAFS	8	8	8	0	0	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT SENSOR	3 2	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
168		SIMAS	60	13	10	58	60	0	0	0	0	0	0	0	0
		ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3																SONAR DEPTH 60	
SENSOR 6																TARGET DEPTH 60	
FOM	DATA	RMAX	RYOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
93	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0	0		
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0	0		
95	SIMAS	17	16	12	14	17	0	0	0	0	0	0	0	0	0		
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0	0		
96	SIMAS	17	16	12	14	17	0	0	0	0	0	0	0	0	0		
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0	0		
97	SIMAS	17	16	12	14	17	0	0	0	0	0	0	0	0	0		
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0	0		
98	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0	0		
99	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
100	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
101	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0	0		
102	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	18	18	18	0	0	0	0	0	0	0	0	0	0	0		
103	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	18	18	18	0	0	0	0	0	0	0	0	0	0	0		
104	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 60

FOH	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SINAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAFS	19	19	19	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3		SONAR DEPTH 60													
SENSOR 6		TARGET DEPTH 600													
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	
94	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	
95	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	
96	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	
97	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	
98	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	
99	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	
100	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	
101	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	
102	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	
103	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	
104	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

FILE	DATA	KMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
105	ICAFS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3		SONAR DEPTH 600																		
SENSOR 6		TARGET DEPTH 60																		
FOM	DATA	RMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
93	SIMAS	9	8	9	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
94	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
95	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
96	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
97	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
98	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
99	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0						
100	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0						
101	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0						
102	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0						
103	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0						
104	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0						
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
105	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT 3 SONAR DEPTH 600 SENSOR 6 TARGET DEPTH 600

ENVIRONMENT 3		SUNAK DEPTH 600													
SENSOR 6	TARGET DEPTH 600														
FUM	DATA	KMAX	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
93	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0	
	ICAPS	52	8	5	50	52	0	0	0	0	0	0	0	0	
94	SIMAS	62	17	15	61	62	0	0	0	0	0	0	0	0	
	ICAPS	52	9	6	50	52	0	0	0	0	0	0	0	0	
95	SIMAS	63	18	15	61	63	0	0	0	0	0	0	0	0	
	ICAPS	56	12	6	50	52	54	56	0	0	0	0	0	0	
96	SIMAS	63	24	16	50	51	53	55	61	63	0	0	0	0	
	ICAPS	57	14	6	50	57	0	0	0	0	0	0	0	0	
97	SIMAS	64	27	16	49	55	61	64	0	0	0	0	0	0	
	ICAPS	57	14	6	50	57	0	0	0	0	0	0	0	0	
98	SIMAS	65	28	16	49	55	61	65	0	0	0	0	0	0	
	ICAPS	57	14	6	50	57	0	0	0	0	0	0	0	0	
99	SIMAS	65	29	16	49	56	61	65	0	0	0	0	0	0	
	ICAPS	58	15	6	50	58	0	0	0	0	0	0	0	0	
100	SIMAS	65	31	16	49	56	59	65	0	0	0	0	0	0	
	ICAPS	58	15	6	50	58	0	0	0	0	0	0	0	0	
101	SIMAS	66	32	16	49	56	59	66	0	0	0	0	0	0	
	ICAPS	106	18	6	50	58	104	106	0	0	0	0	0	0	
102	SIMAS	66	33	16	49	56	58	66	0	0	0	0	0	0	
	ICAPS	106	20	8	50	58	104	106	0	0	0	0	0	0	
103	SIMAS	66	33	16	49	56	58	66	0	0	0	0	0	0	
	ICAPS	106	20	8	50	58	104	106	0	0	0	0	0	0	
104	SIMAS	68	36	16	49	68	0	0	0	0	0	0	0	0	
	ICAPS	106	21	8	49	58	103	106	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
 SECTION 6 TARGET IN FT 600

FILE	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
1	1 SIMS	68	38	16	49	68	0	0	0	0	0	0	0	0
2	100	108	24	8	49	58	103	108	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 20
 SENDER 7 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
82	SIMAS	14	13	11	13	14	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
83	SIMAS	14	13	11	13	14	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
84	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	14	14	14	0	0	0	0	0	0	0	0	0	0
85	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
86	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
87	SIMAS	17	17	17	0	0	0	0	0	0	0	0	0	0
	ICAPS	17	17	17	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEFTH 20
 SENSOR 7 TARGET DEFTH 600

FQM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
85	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
86	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	55	55	55	54	55	0	0	0	0	0	0	0	0
87	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	55	55	55	54	55	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3		SONAR DEPTH 60																	
SENSOR 9		TARGET DEPTH 60																	
FDM	DATA	RMAX	PERCENT	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
93	SIMAS	25	22	20	24	25	0	0	0	0	0	0	0	0					
	ICAPS	22	21	19	21	22	0	0	0	0	0	0	0	0					
94	SIMAS	25	22	20	24	25	0	0	0	0	0	0	0	0					
	ICAPS	22	21	19	21	22	0	0	0	0	0	0	0	0					
95	SIMAS	25	22	20	24	25	0	0	0	0	0	0	0	0					
	ICAPS	22	21	19	21	22	0	0	0	0	0	0	0	0					
96	SIMAS	26	23	20	24	26	0	0	0	0	0	0	0	0					
	ICAPS	23	22	19	21	23	0	0	0	0	0	0	0	0					
97	SIMAS	63	28	26	62	63	0	0	0	0	0	0	0	0					
	ICAPS	26	24	19	21	23	25	26	0	0	0	0	0	0					
98	SIMAS	63	30	26	60	63	0	0	0	0	0	0	0	0					
	ICAPS	62	27	23	25	26	61	62	0	0	0	0	0	0					
99	SIMAS	64	31	26	60	64	0	0	0	0	0	0	0	0					
	ICAPS	65	30	26	61	62	64	65	0	0	0	0	0	0					
100	SIMAS	64	33	28	60	64	0	0	0	0	0	0	0	0					
	ICAPS	65	33	26	28	30	61	62	64	65	0	0	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 3				SONAR DEPTH 60																	
SENSOR 9				TARGET DEPTH 600																	
FOM	DATA	KMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	56	8	5	54	56	0	0	0	0	0	0	0	0	0						
94	SIMAS	58	11	9	57	58	0	0	0	0	0	0	0	0	0						
	ICAPS	57	9	5	54	57	0	0	0	0	0	0	0	0	0						
95	SIMAS	58	12	10	57	58	0	0	0	0	0	0	0	0	0						
	ICAPS	57	11	7	54	57	0	0	0	0	0	0	0	0	0						
96	SIMAS	58	12	10	57	58	0	0	0	0	0	0	0	0	0						
	ICAPS	57	11	7	54	57	0	0	0	0	0	0	0	0	0						
97	SIMAS	61	15	10	57	61	0	0	0	0	0	0	0	0	0						
	ICAPS	59	13	7	54	59	0	0	0	0	0	0	0	0	0						
98	SIMAS	62	16	10	57	62	0	0	0	0	0	0	0	0	0						
	ICAPS	59	13	7	54	59	0	0	0	0	0	0	0	0	0						
99	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0	0						
	ICAPS	61	15	7	54	61	0	0	0	0	0	0	0	0	0						
100	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0	0						
	ICAPS	64	18	7	54	64	0	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
 SENSOR 9 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAFS	55	7	5	54	55	0	0	0	0	0	0	0	0
94	SIMAS	58	11	9	57	58	0	0	0	0	0	0	0	0
	ICAFS	57	9	5	54	57	0	0	0	0	0	0	0	0
95	SIMAS	58	12	10	57	58	0	0	0	0	0	0	0	0
	ICAFS	57	11	7	54	57	0	0	0	0	0	0	0	0
96	SIMAS	60	14	10	57	60	0	0	0	0	0	0	0	0
	ICAFS	57	11	7	54	57	0	0	0	0	0	0	0	0
97	SIMAS	61	15	10	57	61	0	0	0	0	0	0	0	0
	ICAFS	59	13	7	54	59	0	0	0	0	0	0	0	0
98	SIMAS	62	16	10	57	62	0	0	0	0	0	0	0	0
	ICAFS	59	13	7	54	59	0	0	0	0	0	0	0	0
99	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0
	ICAFS	60	14	7	54	60	0	0	0	0	0	0	0	0
100	SIMAS	63	17	10	57	63	0	0	0	0	0	0	0	0
	ICAFS	63	17	7	54	63	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3				SONAR DEPTH 600																											
SENSOR 9				TARGET DEPTH 600																											
FOM	DATA	RMAX	INTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62																	
93	SIMAS	65	35	16	47	65	0	0	0	0	0	0	0	0	0																
	ICAPS	119	21	8	50	57	103	105	107	108	0	0	0	0	0																
94	SIMAS	67	37	16	47	67	0	0	0	0	0	0	0	0	0																
	ICAPS	109	23	8	49	57	103	105	107	109	0	0	0	0	0																
95	SIMAS	67	38	17	47	67	0	0	0	0	0	0	0	0	0																
	ICAPS	109	24	8	49	57	102	105	107	109	0	0	0	0	0																
96	SIMAS	67	38	17	47	67	0	0	0	0	0	0	0	0	0																
	ICAPS	109	25	8	49	57	102	109	0	0	0	0	0	0	0																
97	SIMAS	69	40	17	47	69	0	0	0	0	0	0	0	0	0																
	ICAPS	160	29	8	49	58	102	109	158	160	0	0	0	0	0																
98	SIMAS	69	40	17	47	69	0	0	0	0	0	0	0	0	0																
	ICAPS	160	29	8	49	58	102	109	158	160	0	0	0	0	0																
99	SIMAS	117	45	17	47	72	116	117	0	0	0	0	0	0	0																
	ICAPS	160	32	9	49	60	102	109	158	160	0	0	0	0	0																
100	SIMAS	117	49	17	47	75	115	117	0	0	0	0	0	0	0																
	ICAPS	160	39	9	49	63	102	111	156	160	0	0	0	0	0																

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 60

FUM	DATA	RMAX	RCTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
75	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0
76	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
77	SIMAS	18	18	18	0	0	0	0	0	0	0	0	0	0
	ICAPS	16	16	16	0	0	0	0	0	0	0	0	0	0
78	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0
79	SIMAS	24	24	24	0	0	0	0	0	0	0	0	0	0
	ICAPS	57	24	22	56	57	0	0	0	0	0	0	0	0
80	SIMAS	28	28	28	0	0	0	0	0	0	0	0	0	0
	ICAPS	59	30	26	56	59	0	0	0	0	0	0	0	0
81	SIMAS	60	36	32	55	56	59	60	0	0	0	0	0	0
	ICAPS	59	34	30	56	59	0	0	0	0	0	0	0	0
82	SIMAS	60	42	36	55	60	0	0	0	0	0	0	0	0
	ICAPS	60	39	34	56	60	0	0	0	0	0	0	0	0
83	SIMAS	60	47	41	55	60	0	0	0	0	0	0	0	0
	ICAPS	60	43	38	55	60	0	0	0	0	0	0	0	0
84	SIMAS	61	53	46	55	61	0	0	0	0	0	0	0	0
	ICAPS	63	51	43	56	63	0	0	0	0	0	0	0	0
85	SIMAS	63	60	51	55	63	0	0	0	0	0	0	0	0
	ICAPS	64	57	48	56	64	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3				SONAR DEPTH 200										
SENSOR 15		TARGET DEPTH 60												
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	64	54	64	0	0	0	0	0	0	0	0	0	0
	ICAFS	65	53	53	56	65	0	0	0	0	0	0	0	0
87	SIMAS	154	67	65	153	154	0	0	0	0	0	0	0	0
	ICAFS	65	65	65	0	0	0	0	0	0	0	0	0	0
88	SIMAS	154	71	69	153	154	0	0	0	0	0	0	0	0
	ICAFS	66	66	66	0	0	0	0	0	0	0	0	0	0
89	SIMAS	154	75	73	153	154	0	0	0	0	0	0	0	0
	ICAFS	70	70	70	0	0	0	0	0	0	0	0	0	0
90	SIMAS	155	83	79	152	155	0	0	0	0	0	0	0	0
	ICAFS	76	76	76	0	0	0	0	0	0	0	0	0	0
91	SIMAS	156	90	85	152	156	0	0	0	0	0	0	0	0
	ICAFS	83	83	83	0	0	0	0	0	0	0	0	0	0
92	SIMAS	156	96	91	152	156	0	0	0	0	0	0	0	0
	ICAFS	125	91	89	124	125	0	0	0	0	0	0	0	0
93	SIMAS	156	105	98	120	121	152	156	0	0	0	0	0	0
	ICAFS	125	99	96	123	125	0	0	0	0	0	0	0	0
94	SIMAS	156	118	104	120	128	152	156	0	0	0	0	0	0
	ICAFS	130	110	102	123	130	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 600

FOM	DATA	KMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	59	9	7	58	59	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	60	12	9	58	60	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
84	SIMAS	60	14	9	56	60	0	0	0	0	0	0	0	0
	ICAPS	75	5	4	50	55	0	0	0	0	0	0	0	0
85	SIMAS	60	14	9	56	60	0	0	0	0	0	0	0	0
	ICAPS	75	5	4	50	55	0	0	0	0	0	0	0	0

ENVIRONMENT 3 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

		SENSOR PERFORMANCE CHART (CONT.)															
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
86	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	63	15	6	53	55	57	60	62	63	0	0	0	0	0	0	0
87	SIMAS	63	18	10	56	63	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	64	18	6	52	60	62	64	0	0	0	0	0	0	0	0	0
88	SIMAS	63	18	10	56	63	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	64	18	6	52	60	62	64	0	0	0	0	0	0	0	0	0
89	SIMAS	63	18	10	56	63	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	64	20	8	52	60	62	64	0	0	0	0	0	0	0	0	0
90	SIMAS	157	23	10	56	65	155	157	0	0	0	0	0	0	0	0	0
	ICAPS	65	22	8	52	65	0	0	0	0	0	0	0	0	0	0	0
91	SIMAS	158	24	10	56	65	155	158	0	0	0	0	0	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0	0	0	0
92	SIMAS	159	24	10	56	66	155	159	0	0	0	0	0	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0	0	0	0
93	SIMAS	159	28	10	56	66	120	121	155	159	0	0	0	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0	0	0	0
94	SIMAS	159	32	11	51	52	56	66	120	122	155	159	0	0	0	0	0
	ICAPS	66	23	8	52	66	0	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SENSOR 15		SONAR DEPTH 500 TARGET DEPTH 60															
FOU	DATA	KMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0		
75	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0		
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0		
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0		
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
81	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
82	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0		
83	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0	0		
	ICAPS	55	6	4	54	55	0	0	0	0	0	0	0	0	0		
84	SIMAS	59	10	7	57	59	0	0	0	0	0	0	0	0	0		
	ICAPS	59	9	5	54	55	58	59	0	0	0	0	0	0	0		
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0	0		
	ICAPS	59	9	5	54	55	58	59	0	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3		SONAR DEPTH 500												
SENSOR 15		TARGET DEPTH 60												
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	61	14	8	56	61	0	0	0	0	0	0	0	0
	ICAFS	59	10	5	54	55	57	59	0	0	0	0	0	0
87	SIMAS	61	14	8	56	61	0	0	0	0	0	0	0	0
	ICAFS	64	12	5	54	55	57	59	63	64	0	0	0	0
88	SIMAS	63	18	8	54	63	0	0	0	0	0	0	0	0
	ICAFS	64	17	6	54	64	0	0	0	0	0	0	0	0
89	SIMAS	156	20	8	54	63	155	156	0	0	0	0	0	0
	ICAFS	64	18	6	53	64	0	0	0	0	0	0	0	0
90	SIMAS	156	21	8	54	64	155	156	0	0	0	0	0	0
	ICAFS	65	19	6	53	65	0	0	0	0	0	0	0	0
91	SIMAS	156	21	8	54	64	155	156	0	0	0	0	0	0
	ICAFS	65	20	7	53	65	0	0	0	0	0	0	0	0
92	SIMAS	157	23	9	54	64	155	157	0	0	0	0	0	0
	ICAFS	65	20	7	53	65	0	0	0	0	0	0	0	0
93	SIMAS	160	26	10	54	64	155	157	159	160	0	0	0	0
	ICAFS	65	21	8	53	65	0	0	0	0	0	0	0	0
94	SIMAS	160	26	10	54	64	155	157	159	160	0	0	0	0
	ICAFS	66	22	8	53	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

EQUIPMENT 3		SONAR DEPTH 500																		
SENSOR 15		TARGET DEPTH 600																		
FORM	DATA	RMK	TOTAL	PCNT	F	R22	R31	R32	R41	R42	R51	R52	R61	R62						
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0					
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0					
76	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0					
77	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
78	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	0					
79	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	10	5	51	53	55	56	0	0	0	0	0	0	0					
80	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	12	6	51	56	0	0	0	0	0	0	0	0	0					
81	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	13	6	50	56	0	0	0	0	0	0	0	0	0					
82	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	14	7	50	56	0	0	0	0	0	0	0	0	0					
83	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0	0					
	ICAPS	106	17	7	50	57	105	106	0	0	0	0	0	0	0					
84	SIMAS	58	20	14	47	48	55	58	0	0	0	0	0	0	0					
	ICAPS	108	19	7	50	57	105	108	0	0	0	0	0	0	0					
85	SIMAS	62	23	15	47	48	55	58	61	62	0	0	0	0	0					
	ICAPS	100	24	7	50	59	103	109	0	0	0	0	0	0	0					

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 500
SENSOR 15 TARGET DEPTH 500

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	63	29	16	47	50	55	63	0	0	0	0	0	0
	ICAFS	160	31	7	50	63	103	109	158	160	0	0	0	0
87	SIMAS	66	33	17	47	50	55	66	0	0	0	0	0	0
	ICAFS	161	35	7	50	63	103	110	156	161	0	0	0	0
88	SIMAS	67	36	19	47	50	55	67	0	0	0	0	0	0
	ICAFS	162	39	9	50	63	103	111	156	162	0	0	0	0
89	SIMAS	154	45	20	46	51	53	69	153	154	0	0	0	0
	ICAFS	162	41	9	50	65	103	111	156	162	0	0	0	0
90	SIMAS	154	47	22	46	51	53	69	153	154	0	0	0	0
	ICAFS	164	43	9	50	65	103	111	156	164	0	0	0	0
91	SIMAS	154	52	24	46	71	153	154	0	0	0	0	0	0
	ICAFS	164	44	9	50	65	103	112	156	164	0	0	0	0
92	SIMAS	158	66	26	46	74	122	124	126	128	153	154	156	158
	ICAFS	164	47	9	49	65	103	113	155	164	0	0	0	0
93	SIMAS	158	82	28	43	78	117	129	153	154	156	158	0	0
	ICAFS	166	51	9	48	65	103	114	155	166	0	0	0	0
94	SIMAS	158	95	30	38	80	117	133	153	154	156	158	0	0
	ICAFS	166	54	11	47	65	103	114	155	166	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3		SONAR DEPTH 60																		
SENSOR 19		TARGET DEPTH 60																		
FUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
80	SIMAS	19	19	19	0	0	0	0	0	0	0	0	0	0						
	ICAFS	58	10	7	56	58	0	0	0	0	0	0	0	0						
81	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0						
	ICAFS	59	12	8	56	59	0	0	0	0	0	0	0	0						
82	SIMAS	26	26	26	0	0	0	0	0	0	0	0	0	0						
	ICAFS	59	14	10	56	59	0	0	0	0	0	0	0	0						
83	SIMAS	56	31	29	55	56	0	0	0	0	0	0	0	0						
	ICAFS	61	19	13	56	61	0	0	0	0	0	0	0	0						
84	SIMAS	56	35	33	55	56	0	0	0	0	0	0	0	0						
	ICAFS	61	21	15	56	61	0	0	0	0	0	0	0	0						
85	SIMAS	154	42	38	55	56	153	154	0	0	0	0	0	0						
	ICAFS	61	25	19	56	61	0	0	0	0	0	0	0	0						
86	SIMAS	154	53	42	55	63	153	154	0	0	0	0	0	0						
	ICAFS	61	28	22	56	61	0	0	0	0	0	0	0	0						
87	SIMAS	154	53	47	55	63	153	154	0	0	0	0	0	0						
	ICAFS	65	37	27	56	65	0	0	0	0	0	0	0	0						
88	SIMAS	154	64	52	55	64	153	154	0	0	0	0	0	0						
	ICAFS	65	41	31	56	65	0	0	0	0	0	0	0	0						
89	SIMAS	154	67	65	153	154	0	0	0	0	0	0	0	0						
	ICAFS	65	47	37	56	65	0	0	0	0	0	0	0	0						
90	SIMAS	154	69	67	153	154	0	0	0	0	0	0	0	0						
	ICAFS	65	53	43	56	65	0	0	0	0	0	0	0	0						
91	SIMAS	154	72	70	153	154	0	0	0	0	0	0	0	0						
	ICAFS	65	60	50	56	65	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
 SENSOR 19 TARGET DEPTH 60

FUM	DATA	RMAX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	154	76	74	153	154	0	0	0	0	0	0	0	0
	ICAPS	56	55	66	0	0	0	0	0	0	0	0	0	0
93	SIMAS	154	84	80	120	121	153	154	0	0	0	0	0	0
	ICAPS	67	67	67	0	0	0	0	0	0	0	0	0	0
94	SIMAS	154	90	86	120	121	153	154	0	0	0	0	0	0
	ICAPS	124	73	70	122	124	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3		SONAR DEPTH 60																		
SENSOR 19		TARGET DEPTH 600																		
10M	DATA	RMAX	CRYSTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0						
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0						
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0						
	ICAPS	60	6	5	58	60	0	0	0	0	0	0	0	0						
84	SIMAS	59	10	8	58	59	0	0	0	0	0	0	0	0						
	ICAPS	60	10	5	54	55	58	60	0	0	0	0	0	0						
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0						
	ICAPS	60	12	5	53	56	58	60	0	0	0	0	0	0						
86	SIMAS	63	16	8	56	63	0	0	0	0	0	0	0	0						
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0						
87	SIMAS	63	17	7	56	63	0	0	0	0	0	0	0	0						
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0						
88	SIMAS	64	16	9	56	64	0	0	0	0	0	0	0	0						
	ICAPS	61	15	6	53	61	0	0	0	0	0	0	0	0						
89	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0						
	ICAPS	65	19	6	53	65	0	0	0	0	0	0	0	0						
90	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0						
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0						
91	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0						
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3															SONAR DEPTH 60		SENSOR PERFORMANCE CHART (CONT.)														
SENSOR 19															TARGET DEPTH 600																
FOM	DATA	RMAX	IRTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62																	
92	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0	93	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0		
	ICAFS	65	20	7	53	65	0	0	0	0	0	0	0	0		ICAFS	66	22	8	53	66	0	0	0	0	0	0	0	0		
94	SIMAS	160	33	11	53	65	121	122	124	125	155	156	158	160	94	SIMAS	160	33	11	53	65	121	122	124	125	155	156	158	160		
	ICAFS	66	22	8	53	66	0	0	0	0	0	0	0	0		ICAFS	66	22	8	53	66	0	0	0	0	0	0	0	0		

SENSOR PERFORMANCE CHART

ENVIRONMENT 3				SONAR DEPTH 600																			
SENSOR 19				TARGET DEPTH 60																			
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62									
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0								
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0								
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	0								
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0								
	ICAPS	60	8	5	58	60	0	0	0	0	0	0	0	0	0								
84	SIMAS	59	10	8	58	59	0	0	0	0	0	0	0	0	0								
	ICAPS	60	10	5	54	55	58	60	0	0	0	0	0	0	0								
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0	0								
	ICAPS	60	12	5	53	56	58	60	0	0	0	0	0	0	0								
86	SIMAS	63	16	8	56	63	0	0	0	0	0	0	0	0	0								
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0	0								
87	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0	0								
	ICAPS	60	13	5	53	60	0	0	0	0	0	0	0	0	0								
88	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0	0								
	ICAPS	61	15	6	53	61	0	0	0	0	0	0	0	0	0								
89	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0	0								
	ICAPS	65	19	6	53	65	0	0	0	0	0	0	0	0	0								
90	SIMAS	156	22	9	53	54	56	64	155	156	0	0	0	0	0								
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0	0								
1	SIMAS	156	22	7	53	54	56	64	155	156	0	0	0	0	0								
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0	0								

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0
	ICAPS	65	20	7	53	65	0	0	0	0	0	0	0	0
93	SIMAS	156	24	10	53	54	56	65	155	156	0	0	0	0
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0
94	SIMAS	160	33	11	53	65	121	122	124	125	155	156	158	160
	ICAPS	66	22	8	53	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0
	ICAFS	57	9	5	53	54	56	57	0	0	0	0	0	0
81	SIMAS	48	14	12	47	48	0	0	0	0	0	0	0	0
	ICAFS	107	15	7	50	51	53	54	56	57	106	107	0	0
82	SIMAS	58	18	12	47	49	56	58	0	0	0	0	0	0
	ICAFS	107	16	7	50	54	56	57	106	107	0	0	0	0
83	SIMAS	59	22	14	47	49	55	59	0	0	0	0	0	0
	ICAFS	107	19	7	50	54	56	58	103	104	106	107	0	0
84	SIMAS	61	25	15	47	49	55	61	0	0	0	0	0	0
	ICAFS	107	19	7	50	54	56	58	103	104	106	107	0	0
85	SIMAS	63	28	16	47	49	55	63	0	0	0	0	0	0
	ICAFS	110	25	7	49	61	103	104	106	107	109	110	0	0
86	SIMAS	63	32	17	47	49	51	53	55	63	0	0	0	0
	ICAFS	160	30	7	49	61	103	104	106	107	109	110	156	157
87	SIMAS	154	36	19	47	49	51	53	55	63	153	154	0	0
	ICAFS	160	31	7	49	61	103	104	106	107	109	110	156	160
88	SIMAS	154	45	20	46	53	55	69	153	154	0	0	0	0
	ICAFS	161	38	8	49	61	63	65	103	110	156	161	0	0
89	SIMAS	154	49	21	46	71	153	154	0	0	0	0	0	0
	ICAFS	161	41	8	49	65	103	111	155	161	0	0	0	0
90	SIMAS	154	57	22	45	72	122	126	153	154	0	0	0	0
	ICAFS	163	45	8	47	65	103	111	155	163	0	0	0	0
91	SIMAS	154	72	24	43	75	115	118	120	128	153	154	0	0
	ICAFS	164	47	8	47	65	103	111	154	164	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 600
SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	154	80	26	43	77	115	131	153	154	0	0	0	0
	ICAFS	164	51	10	47	65	101	111	154	164	0	0	0	0
93	SIMAS	190	97	29	40	79	115	136	153	154	187	190	0	0
	ICAFS	165	54	10	47	65	100	112	154	165	0	0	0	0
94	SIMAS	200	123	81	113	138	153	154	184	195	199	200	0	0
	ICAFS	165	56	11	47	65	99	112	154	165	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
 SONAR 23 L TARGET DEPTH 60

IDUM	DATA	KMAX	KTOTAL	KCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	154	0	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	154	0	0	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	154	0	0	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT	3	SONAR DEPTH	60
SENSOR	23	TARGET DEPTH	60

472

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
 SENSOR 23 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
NORDA-TN-73-VOL-2

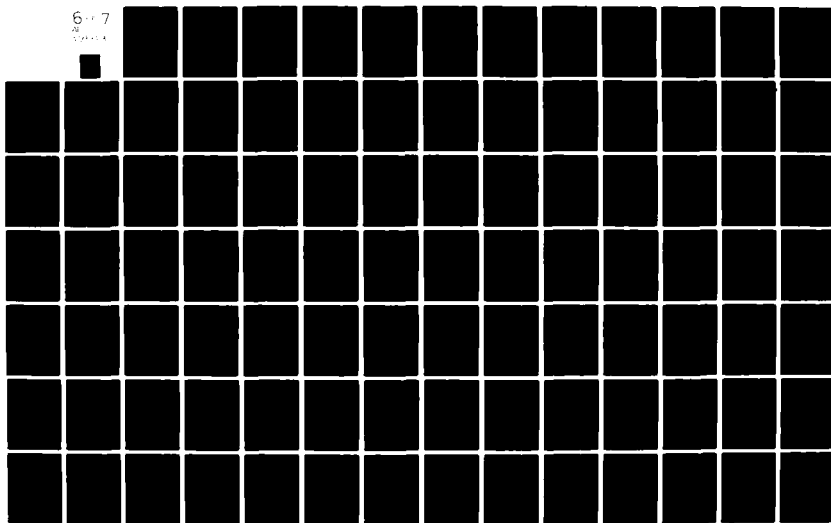
UNCLASSIFIED

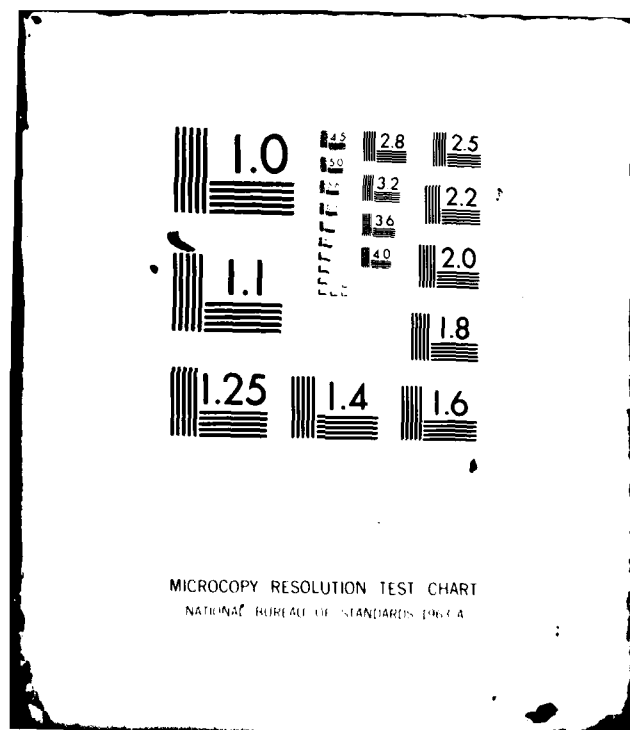
NL

6-7

20

1000000





SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SONAR DEPTH 60
SENSOR 23 L TARGET DEPTH 500

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
83	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAFS	60	8	5	58	60	0	0	0	0	0	0	0	0
84	SIMAS	59	10	8	58	59	0	0	0	0	0	0	0	0
	ICAFS	60	10	5	54	55	58	60	0	0	0	0	0	0
85	SIMAS	59	12	8	56	59	0	0	0	0	0	0	0	0
	ICAFS	60	12	5	53	56	58	60	0	0	0	0	0	0
86	SIMAS	63	16	8	56	63	0	0	0	0	0	0	0	0
	ICAFS	60	13	5	53	60	0	0	0	0	0	0	0	0
87	SIMAS	63	17	9	56	63	0	0	0	0	0	0	0	0
	ICAFS	60	13	5	53	60	0	0	0	0	0	0	0	0
88	SIMAS	64	18	9	56	64	0	0	0	0	0	0	0	0
	ICAFS	61	15	6	53	61	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3				SONAR DEPTH 300															
SENSOR 23				TARGET DEPTH 60															
FOM	DATA	RMAX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0				
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0				
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0				
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0				
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0				
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0				

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3		SONAR DEPTH 300																		
SENSOR 23 L		TARGET DEPTH 60																		
FOM	DATA	RMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0						
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0						
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
81	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
82	SIMAS	56	6	4	55	56	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
83	SIMAS	60	8	4	55	56	59	60	0	0	0	0	0	0						
	ICAPS	60	8	4	57	60	0	0	0	0	0	0	0	0						
84	SIMAS	61	11	5	55	56	58	61	0	0	0	0	0	0						
	ICAPS	60	11	5	55	60	0	0	0	0	0	0	0	0						
85	SIMAS	61	13	6	55	61	0	0	0	0	0	0	0	0						
	ICAPS	63	16	6	54	63	0	0	0	0	0	0	0	0						
86	SIMAS	61	13	6	55	61	0	0	0	0	0	0	0	0						
	ICAPS	63	18	8	54	63	0	0	0	0	0	0	0	0						
87	SIMAS	63	15	6	55	63	0	0	0	0	0	0	0	0						
	ICAPS	64	19	8	54	64	0	0	0	0	0	0	0	0						
88	SIMAS	150	19	6	50	63	154	155	0	0	0	0	0	0						
	ICAPS	65	20	8	54	65	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT 3		SONAR DEPTH 300		SONAR DEPTH 600		SONAR DEPTH 900		SONAR DEPTH 1200		SONAR DEPTH 1500		SONAR DEPTH 1800		SONAR DEPTH 2100		SONAR DEPTH 2400		SONAR DEPTH 2700		SONAR DEPTH 3000	
SENSOR 23		TARGET DEPTH 300		TARGET DEPTH 600		TARGET DEPTH 900		TARGET DEPTH 1200		TARGET DEPTH 1500		TARGET DEPTH 1800		TARGET DEPTH 2100		TARGET DEPTH 2400		TARGET DEPTH 2700		TARGET DEPTH 3000	
FORM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	R71	R72	R81	R82	R91	R92	
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
74	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
75	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3				SONAR DEPTH 300										
SENSOR 23				TARGET DEPTH 600										
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
81	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
82	SIMAS	58	9	7	57	58	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	58	11	9	57	58	0	0	0	0	0	0	0	0
	ICAPS	59	11	6	52	53	57	59	0	0	0	0	0	0
84	SIMAS	60	17	10	51	52	56	60	0	0	0	0	0	0
	ICAPS	59	14	6	52	59	0	0	0	0	0	0	0	0
85	SIMAS	60	17	10	51	52	56	60	0	0	0	0	0	0
	ICAPS	59	14	6	52	59	0	0	0	0	0	0	0	0
86	SIMAS	63	20	10	51	53	56	60	62	63	0	0	0	0
	ICAPS	59	15	7	52	59	0	0	0	0	0	0	0	0
87	SIMAS	63	21	11	51	53	56	60	62	63	0	0	0	0
	ICAPS	64	21	8	52	64	0	0	0	0	0	0	0	0
88	SIMAS	64	24	11	50	53	56	64	0	0	0	0	0	0
	APC	65	22	8	52	65	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 60
 SENSOR 23-1 TARGET DEPTH 60

FOM	DATA	EMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
71	SIMAS	8	8	3	6	8	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
72	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
73	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3				SONAR DEPTH 60																		
SENSOR 33H				TARGET DEPTH 60																		
FUM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62								
74	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	0							
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0	0							
75	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0	0							
	ICAPS	12	10	8	11	12	0	0	0	0	0	0	0	0	0							
76	SIMAS	15	11	9	14	15	0	0	0	0	0	0	0	0	0							
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0	0							
77	SIMAS	16	15	9	11	16	0	0	0	0	0	0	0	0	0							
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0	0							
78	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0	0							
	ICAPS	18	15	13	17	18	0	0	0	0	0	0	0	0	0							
79	SIMAS	20	16	16	19	20	0	0	0	0	0	0	0	0	0							
	ICAPS	19	17	14	17	19	0	0	0	0	0	0	0	0	0							
80	SIMAS	21	20	17	19	21	0	0	0	0	0	0	0	0	0							
	ICAPS	19	19	19	0	0	0	0	0	0	0	0	0	0	0							
81	SIMAS	28	25	23	27	28	0	0	0	0	0	0	0	0	0							
	ICAPS	24	21	19	23	24	0	0	0	0	0	0	0	0	0							
82	SIMAS	28	26	23	26	28	0	0	0	0	0	0	0	0	0							
	ICAPS	25	23	20	23	25	0	0	0	0	0	0	0	0	0							
83	SIMAS	29	28	24	26	29	0	0	0	0	0	0	0	0	0							
	ICAPS	25	24	20	22	25	0	0	0	0	0	0	0	0	0							
84	SIMAS	59	33	24	26	29	34	36	58	59	0	0	0	0	0							
	ICAPS	30	27	25	29	30	0	0	0	0	0	0	0	0	0							
85	SIMAS	59	34	29	34	36	58	59	0	0	0	0	0	0	0							
	ICAPS	31	30	26	28	31	0	0	0	0	0	0	0	0	0							

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3		SONAR DEPTH 60		TARGET DEPTH 600																									
FUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62															
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0														
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0														
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0														
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0														
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0														
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0														
80	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0														
81	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0														
82	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	0														
83	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	0														
84	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														
85	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0	0														
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	0														

SENSOR PERFORMANCE CHART

SONAR DEPTH 300
SONAR DEPTH 60

SONAR	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3		SONAR DEPTH																
SENSOR 23H		TARGET DEPTH																
FOR	DATA	MAX	TOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
74	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0					
75	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0					
76	SIMAS	5	5	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0					
77	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0					
78	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0					
79	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0					
80	SIMAS	10	10	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0					
81	SIMAS	12	12	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0					
82	SIMAS	14	14	0	0	0	0	0	0	0	0	0	0					
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0					
83	SIMAS	16	16	0	0	0	0	0	0	0	0	0	0					
	ICAPS	60	60	59	60	0	0	0	0	0	0	0	0					
84	SIMAS	18	18	0	0	0	0	0	0	0	0	0	0					
	ICAPS	60	60	59	60	0	0	0	0	0	0	0	0					
85	SIMAS	20	23	59	60	0	0	0	0	0	0	0	0					
	ICAPS	60	60	59	60	0	0	0	0	0	0	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 3 SONAR DEPTH 300
 SONAR 23H TARGET DEPTH 300

ITEM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3		SONAR DEPTH																
SENSOR 234		TARGET DEPTH																
ITEM	DATA	ROCK	UTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
74	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0					
75	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0					
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0					
76	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0					
	ICAPS	5	5	0	0	0	0	0	0	0	0	0	0					
77	SIMAS	6	6	0	0	0	0	0	0	0	0	0	0					
	ICAPS	5	5	0	0	0	0	0	0	0	0	0	0					
78	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0					
	ICAPS	5	5	0	0	0	0	0	0	0	0	0	0					
79	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	0	0	0	0	0	0	0	0	0	0					
80	SIMAS	7	7	0	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	0	0	0	0	0	0	0	0	0	0					
81	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0					
	ICAPS	6	6	0	0	0	0	0	0	0	0	0	0					
82	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	8	55	56	0	0	0	0	0	0	0	0					
83	SIMAS	8	8	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	9	55	56	0	0	0	0	0	0	0	0					
84	SIMAS	9	9	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	9	55	56	0	0	0	0	0	0	0	0					
85	SIMAS	9	9	0	0	0	0	0	0	0	0	0	0					
	ICAPS	56	9	55	56	0	0	0	0	0	0	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 20		SONAR 2		TARGET DEPTH 60																
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62								
96	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0								
	ICAPS	10	10	10	0	0	0	0	0	0	0	0	0	0								
97	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0								
98	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0								
99	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0								
100	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0								
101	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0								
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0								
102	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0								
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0								
103	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0								
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0								
104	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0								
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0								
105	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0								
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0								
106	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0								
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0								
107	SIMAS	52	18	14	51	52	0	0	0	0	0	0	0	0								
	ICAPS	14	13	11	13	14	0	0	0	0	0	0	0	0								

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		SONAR DEPTH 20													
SENSOR 2		TARGET DEPTH 60													
FOM	DATA	RMAX	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
	SIMAS	52	16	14	51	52	0	0	0	0	0	0	0	0	
108	ICAPS	14	15	11	13	14	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 20																		
SENSOR 2		TARGET DEPTH 600																		
EDH	DATA	EMAX	EMIN	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0						
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0						
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
99	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
100	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
101	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
102	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
103	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
104	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0						
105	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0						
106	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0						
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0						
107	SIMAS	5	5	5	49	51	0	0	0	0	0	0	0	0						
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 600

FDM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	51	7	4	49	51	0	0	0	0	0	0	0	0
108	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT	4	SONAR	60
SENSOR	6	TARGET	60

[illegible]

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 60

FOI	DATA	RMS	TOTAL	RCOUNT	R01	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAPS	11	11	11	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

ITEM	DATA	RMAX	NTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
94	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
99	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
100	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
101	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
102	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
103	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
104	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMS	3	3	3	0	0	0	0	0	0	0	0	0	0
105	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
 LINGER 6 TARGET DEPTH 60

FORM	DATA	RMAX	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
94	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
98	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
99	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
100	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
101	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
102	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
103	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
104	SIMAS	51	8	5	49	51	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

EQUIPMENT		SONAR DEPTH													
SENSOR		TARGET DEPTH													
FORM	DATA	RMAX	INITIAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
1	SIMS	51	8	5	49	51	0	0	0	0	0	0	0	0	
10%	LOPS	4	4	4	0	0	0	0	0	0	0	0	0	0	

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

SONAR DATA	TIME	TOTAL	PCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	51	11	6	47	51	0	0	0	0	0	0	0
	ICAPS	53	11	9	57	58	0	0	0	0	0	0	0
94	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0
	ICAPS	54	14	11	57	59	0	0	0	0	0	0	0
95	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0
	ICAPS	59	15	12	57	59	0	0	0	0	0	0	0
96	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0
	ICAPS	60	17	13	57	60	0	0	0	0	0	0	0
97	SIMAS	52	12	6	47	52	0	0	0	0	0	0	0
	ICAPS	61	21	14	55	61	0	0	0	0	0	0	0
98	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0
	ICAPS	61	22	15	55	61	0	0	0	0	0	0	0
99	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0
	ICAPS	61	23	16	55	61	0	0	0	0	0	0	0
100	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0
	ICAPS	61	24	17	55	61	0	0	0	0	0	0	0
101	SIMAS	52	13	6	46	52	0	0	0	0	0	0	0
	ICAPS	62	26	18	55	62	0	0	0	0	0	0	0
102	SIMAS	52	17	7	46	52	97	99	0	0	0	0	0
	ICAPS	62	26	18	55	62	0	0	0	0	0	0	0
103	SIMAS	52	18	7	45	52	97	99	0	0	0	0	0
	ICAPS	62	28	19	55	63	0	0	0	0	0	0	0
104	SIMAS	52	20	7	45	53	96	99	0	0	0	0	0
	ICAPS	63	29	20	55	63	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		SONAR DEPTH 600															
SENSOR 6		TARGET DEPTH 600															
FOR	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
	SIMAS	59	20	7	45	53	96	99	0	0	0	0	0	0			
105	IPAPS	63	30	21	55	63	0	0	0	0	0	0	0	0			

SENSOR PERFORMANCE CHART

ENVIRONMENT 4				SONAR DEPTH 20																						
SENSOR 7				TARGET DEPTH 60																						
FOM	DATA	RMAX	RMIN	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62												
81	SIMAS	8	5	8	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	9	5	5	7	9	0	0	0	0	0	0	0	0	0											
82	SIMAS	8	5	8	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	9	5	5	7	9	0	0	0	0	0	0	0	0	0											
83	SIMAS	8	5	8	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	9	5	9	0	0	0	0	0	0	0	0	0	0	0											
84	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	9	5	9	0	0	0	0	0	0	0	0	0	0	0											
85	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0	0											
86	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0	0											
87	SIMAS	11	11	11	0	0	0	0	0	0	0	0	0	0	0											
	ICAPS	12	11	9	11	12	0	0	0	0	0	0	0	0	0											

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 20																			
SENSOR 7		TARGET DEPTH 600																			
FOM	DATA	RMAX	RTOTAL	RCOUNT	R20	R22	R31	R32	R41	R42	R51	R52	R61	R62							
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0	0						
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
85	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
86	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
87	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 50
 SENSOR 9 TARGET DEPTH 60

FON	DATA	RMAX	ORIGINAL	RECOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
94	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
95	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
96	SIMAS	15	14	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
97	SIMAS	55	20	17	53	55	0	0	0	0	0	0	0	0
	ICAPS	15	14	12	14	15	0	0	0	0	0	0	0	0
98	SIMAS	55	21	18	53	55	0	0	0	0	0	0	0	0
	ICAPS	16	15	12	14	16	0	0	0	0	0	0	0	0
99	SIMAS	55	22	18	51	55	0	0	0	0	0	0	0	0
	ICAPS	16	14	12	14	16	0	0	0	0	0	0	0	0
100	SIMAS	55	23	18	51	55	0	0	0	0	0	0	0	0
	ICAPS	16	15	12	14	16	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 60		TARGET DEPTH 600															
SENSOR 9																			
FQM	DATA	RMAX	RTOTAL	KCONT	K21	K22	R31	R32	R41	R42	R51	R52	R61	R62					
93	SIMAS	50	5	4	49	50	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
94	SIMAS	51	3	5	49	51	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
95	SIMAS	54	10	5	49	51	53	54	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
96	SIMAS	54	11	5	49	54	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
97	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
98	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
99	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
100	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0	0				
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	0				

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 600																	
SENSOR 9		TARGET DEPTH 60																	
FUM	DATA	RMAX	INTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
93	SIMAS	51	3	5	49	51	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
94	SIMAS	54	10	5	49	51	53	54	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
95	SIMAS	54	11	5	49	54	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
96	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
97	SIMAS	54	12	6	49	54	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
98	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0	0				
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0				
99	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0	0				
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0	0				
100	SIMAS	56	14	6	49	56	0	0	0	0	0	0	0	0	0				
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0	0				

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 600		SENSOR 9		TARGET DEPTH 600														
FOM	DATA	RMAX	RIDIAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
93	SIMAS	100	20	7	45	53	97	100	0	0	0	0	0	0						
	ICAFS	61	15	8	55	61	0	0	0	0	0	0	0	0						
94	SIMAS	100	23	7	45	55	96	100	0	0	0	0	0	0						
	ICAFS	116	21	10	55	62	114	116	0	0	0	0	0	0						
95	SIMAS	101	24	7	45	55	96	101	0	0	0	0	0	0						
	ICAFS	116	25	12	55	62	112	116	0	0	0	0	0	0						
96	SIMAS	101	26	8	45	55	95	101	0	0	0	0	0	0						
	ICAFS	117	28	15	55	62	112	117	0	0	0	0	0	0						
97	SIMAS	102	25	8	44	55	95	102	0	0	0	0	0	0						
	ICAFS	117	34	18	55	63	111	117	0	0	0	0	0	0						
98	SIMAS	102	29	8	44	56	95	102	0	0	0	0	0	0						
	ICAFS	11	39	21	54	64	111	117	0	0	0	0	0	0						
99	SIMAS	148	32	8	44	56	95	102	146	148	0	0	0	0						
	ICAFS	118	46	26	53	64	111	118	0	0	0	0	0	0						
100	SIMAS	149	33	8	44	56	95	102	146	149	0	0	0	0						
	ICAFS	120	53	31	53	64	111	120	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT 4				SONAR DEPTH 200										
SENSOR 15		TARGET DEPTH 50												
FOM	DATA	RMAX	IRTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAFS	11	10	6	8	11	0	0	0	0	0	0	0	0
75	SIMAS	13	13	13	0	0	0	0	0	0	0	0	0	0
	ICAFS	11	11	11	0	0	0	0	0	0	0	0	0	0
76	SIMAS	16	15	13	15	16	0	0	0	0	0	0	0	0
	ICAFS	14	13	11	13	14	0	0	0	0	0	0	0	0
77	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAFS	16	16	16	0	0	0	0	0	0	0	0	0	0
78	SIMAS	20	20	20	0	0	0	0	0	0	0	0	0	0
	ICAFS	16	16	16	0	0	0	0	0	0	0	0	0	0
79	SIMAS	25	24	20	22	25	0	0	0	0	0	0	0	0
	ICAFS	17	19	19	0	0	0	0	0	0	0	0	0	0
80	SIMAS	25	25	25	0	0	0	0	0	0	0	0	0	0
	ICAFS	23	23	23	0	0	0	0	0	0	0	0	0	0
81	SIMAS	30	29	25	27	30	0	0	0	0	0	0	0	0
	ICAFS	28	26	23	26	28	0	0	0	0	0	0	0	0
82	SIMAS	30	29	25	27	30	0	0	0	0	0	0	0	0
	ICAFS	28	27	23	25	28	0	0	0	0	0	0	0	0
83	SIMAS	30	30	30	0	0	0	0	0	0	0	0	0	0
	ICAFS	33	31	28	31	33	0	0	0	0	0	0	0	0
84	SIMAS	52	36	30	32	37	51	52	0	0	0	0	0	0
	ICAFS	33	32	28	30	33	0	0	0	0	0	0	0	0
85	SIMAS	54	42	37	50	54	0	0	0	0	0	0	0	0
	ICAFS	30	36	28	30	33	35	38	0	0	0	0	0	0

ENVIRONMENT 4 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 60

SENSOR PERFORMANCE CHART (CONT.)

FOR DATA	MAX	TOTAL	CONT	R21	R22	R21	R32	R41	R42	R51	R52	R61	R62
36	SIMAS	54	42	37	50	54	0	0	0	0	0	0	0
	ICAPS	43	40	28	30	33	35	40	43	0	0	0	0
87	SIMAS	55	47	37	41	44	50	55	0	0	0	0	0
	ICAPS	60	43	33	35	38	40	59	60	0	0	0	0
88	SIMAS	55	50	44	50	55	0	0	0	0	0	0	0
	ICAPS	61	48	33	35	38	40	45	48	58	61	0	0
89	SIMAS	55	52	46	50	55	0	0	0	0	0	0	0
	ICAPS	61	50	39	40	43	45	58	61	0	0	0	0
90	SIMAS	56	49	46	48	56	0	0	0	0	0	0	0
	ICAPS	62	57	50	52	53	58	62	0	0	0	0	0
91	SIMAS	57	57	57	0	0	0	0	0	0	0	0	0
	ICAPS	63	61	50	52	55	57	63	0	0	0	0	0
92	SIMAS	103	80	57	101	103	0	0	0	0	0	0	0
	ICAPS	64	65	55	57	64	0	0	0	0	0	0	0
93	SIMAS	109	83	58	101	103	108	109	0	0	0	0	0
	ICAPS	121	84	55	57	65	120	121	0	0	0	0	0
94	SIMAS	109	85	62	101	104	108	109	0	0	0	0	0
	ICAPS	121	70	55	57	65	67	69	119	121	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4				SONAR DEPTH 200				SONAR DEPTH 600						
SENSOR 15				TARGET DEPTH 200				TARGET DEPTH 600						
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	55	10	4	49	50	52	55	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 200
SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	55	12	5	48	50	52	55	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	12	5	48	50	52	55	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
88	SIMAS	104	10	6	48	55	103	104	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
89	SIMAS	104	10	9	48	55	103	104	0	0	0	0	0	0
	ICAPS	58	7	5	57	58	0	0	0	0	0	0	0	0
90	SIMAS	103	10	13	48	56	99	101	103	105	0	0	0	0
	ICAPS	63	10	5	57	59	62	63	0	0	0	0	0	0
91	SIMAS	106	36	20	48	56	99	101	103	106	0	0	0	0
	ICAPS	63	12	7	57	59	62	63	0	0	0	0	0	0
92	SIMAS	155	47	26	48	56	99	101	103	109	154	155	0	0
	ICAPS	63	15	8	56	59	61	63	0	0	0	0	0	0
93	SIMAS	155	54	30	48	56	99	109	150	151	154	155	0	0
	ICAPS	64	17	8	56	64	0	0	0	0	0	0	0	0
94	SIMAS	156	61	34	47	56	99	109	150	152	154	156	0	0
	ICAPS	119	20	8	56	64	117	119	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 60

FORM	DATA	KMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	53	20	18	32	53	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	53	23	21	52	53	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	54	26	23	52	54	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 60

FOH	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	55	32	26	49	50	52	55	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	36	29	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	38	31	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
89	SIMAS	55	41	34	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
90	SIMAS	105	50	37	49	56	100	101	103	105	0	0	0	0
	ICAPS	59	6	4	50	59	0	0	0	0	0	0	0	0
91	SIMAS	105	53	40	49	56	100	101	103	105	0	0	0	0
	ICAPS	59	9	4	6	7	57	59	0	0	0	0	0	0
92	SIMAS	105	56	42	48	56	100	101	103	105	0	0	0	0
	ICAPS	63	12	4	6	7	57	59	61	63	0	0	0	0
93	SIMAS	152	66	46	48	56	100	101	103	109	151	152	0	0
	ICAPS	63	14	4	6	8	57	63	0	0	0	0	0	0
94	SIMAS	156	70	56	100	101	103	109	151	152	154	156	0	0
	ICAPS	119	17	8	57	63	118	119	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 600

FORM	DATA	RMAX	RTOTAL	RCOUNT	R01	R02	R03	R02	R01	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0	0
76	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
77	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
78	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
79	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	58	8	5	5	58	0	0	0	0	0	0	0	0	0	0
80	SIMAS	52	6	4	51	52	0	0	0	0	0	0	0	0	0	0
	ICAPS	58	9	5	55	58	0	0	0	0	0	0	0	0	0	0
81	SIMAS	52	7	5	51	52	0	0	0	0	0	0	0	0	0	0
	ICAPS	53	9	5	55	58	0	0	0	0	0	0	0	0	0	0
82	SIMAS	52	8	5	50	52	0	0	0	0	0	0	0	0	0	0
	ICAPS	115	14	6	55	59	112	115	0	0	0	0	0	0	0	0
83	SIMAS	54	10	5	50	54	0	0	0	0	0	0	0	0	0	0
	ICAPS	115	15	6	55	59	112	115	0	0	0	0	0	0	0	0
84	SIMAS	54	11	6	50	54	0	0	0	0	0	0	0	0	0	0
	ICAPS	115	15	6	55	59	112	115	0	0	0	0	0	0	0	0
85	SIMAS	54	14	7	47	48	50	54	0	0	0	0	0	0	0	0
	ICAPS	172	20	6	55	60	112	115	169	172	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4				SONAR DEPTH 500				SENSOR 15				TARGET DEPTH 600			
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62	
86	SIMAS	103	1	7	47	48	50	54	101	103	0	0	0	0	
	ICAFS	172	24	7	54	61	112	116	169	172	0	0	0	0	
87	SIMAS	103	1	7	47	48	50	54	101	103	0	0	0	0	
	ICAFS	172	24	7	54	61	112	116	169	172	0	0	0	0	
88	SIMAS	103	22	10	47	48	50	54	98	99	101	103	0	0	
	ICAFS	172	25	8	54	61	112	116	169	172	0	0	0	0	
89	SIMAS	153	29	10	47	54	98	99	101	105	107	108	152	153	
	ICAFS	172	28	8	54	62	111	117	169	172	0	0	0	0	
90	SIMAS	153	35	15	47	54	98	99	101	105	107	109	152	153	
	ICAFS	173	33	8	54	62	64	65	111	118	168	173	0	0	
91	SIMAS	154	49	23	47	57	98	99	101	105	107	109	149	150	
	ICAFS	174	39	8	53	65	111	121	168	174	0	0	0	0	
92	SIMAS	154	56	28	46	57	98	99	101	105	107	110	149	150	
	ICAFS	176	43	9	52	65	111	121	168	176	0	0	0	0	
93	SIMAS	159	67	33	44	57	98	99	101	105	107	110	149	150	
	ICAFS	177	45	9	52	65	111	122	168	177	0	0	0	0	
94	SIMAS	159	73	36	44	58	98	110	149	150	152	154	156	159	
	ICAFS	177	47	9	50	65	111	122	168	177	0	0	0	0	

SENSOR PERFORMANCE CHART

ENVIRONMENT 4		SONAR DEPTH 60		TARG. DEPTH 60													
FOR	DATA	RMAS	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
80	SIMAS	34	33	30	34	34	0	0	0	0	0	0	0	0	0		
	ICAPS	27	25	23	26	27	0	0	0	0	0	0	0	0	0		
81	SIMAS	37	36	34	36	37	0	0	0	0	0	0	0	0	0		
	ICAPS	28	27	24	26	28	0	0	0	0	0	0	0	0	0		
82	SIMAS	41	40	38	40	41	0	0	0	0	0	0	0	0	0		
	ICAPS	29	28	29	0	0	0	0	0	0	0	0	0	0	0		
83	SIMAS	52	44	38	40	41	44	45	51	52	0	0	0	0	0		
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0	0		
84	SIMAS	50	51	38	40	45	47	48	51	52	54	55	0	0	0		
	ICAPS	32	31	29	31	32	0	0	0	0	0	0	0	0	0		
85	SIMAS	59	52	45	47	48	51	55	0	0	0	0	0	0	0		
	ICAPS	38	36	32	34	35	37	38	0	0	0	0	0	0	0		
86	SIMAS	55	54	45	47	55	0	0	0	0	0	0	0	0	0		
	ICAPS	44	42	38	40	41	43	44	0	0	0	0	0	0	0		
87	SIMAS	59	57	45	47	56	58	59	0	0	0	0	0	0	0		
	ICAPS	60	54	38	40	41	43	44	59	60	0	0	0	0	0		
88	SIMAS	63	60	56	58	59	62	63	0	0	0	0	0	0	0		
	ICAPS	61	47	44	59	61	0	0	0	0	0	0	0	0	0		
89	SIMAS	63	60	56	58	59	62	63	0	0	0	0	0	0	0		
	ICAPS	61	50	47	59	61	0	0	0	0	0	0	0	0	0		
90	SIMAS	70	67	63	65	66	69	70	0	0	0	0	0	0	0		
	ICAPS	61	53	47	54	55	58	61	0	0	0	0	0	0	0		
91	SIMAS	74	71	67	69	70	73	74	0	0	0	0	0	0	0		
	ICAPS	61	57	47	49	50	52	55	58	61	0	0	0	0	0		

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		SONAR DEPTH 60		SENSOR PERFORMANCE CHART (CONT'D)																			
SENSOR 19		TARGET DEPTH 60																					
FOM	DATA	RMAX	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62										
92	SIMAS	106	67	69	71	73	74	76	78	101	102	104	106										
	ICAPS	61	47	49	50	52	55	58	61	0	0	0	0										
93	SIMAS	109	74	76	78	80	81	101	102	104	109	0	0										
	ICAPS	121	50	52	55	58	62	120	121	0	0	0	0										
94	SIMAS	110	78	80	82	84	85	101	110	0	0	0	0										
	ICAPS	121	55	58	62	120	121	0	0	0	0	0	0										

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR TESTS 60
 SENSOR 19 TARGET TESTS 600

FORM	DATA	RMAX	RTOTAL	ACONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	53	10	5	49	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	12	5	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
89	SIMAS	56	17	8	49	56	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
90	SIMAS	104	24	13	48	56	103	104	0	0	0	0	0	0
	ICAPS	50	5	4	0	58	0	0	0	0	0	0	0	0
91	SIMAS	104	32	20	48	56	102	104	0	0	0	0	0	0
	ICAPS	60	10	5	57	59	62	63	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 19 TARGET DEPTH 600

FOM	DATA	FMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	107	43	26	48	56	99	104	106	107	0	0	0	0
	ICAPS	63	12	7	57	59	62	63	0	0	0	0	0	0
93	SIMAS	151	52	29	48	57	99	104	106	110	150	151	0	0
	ICAPS	63	13	7	57	59	61	63	0	0	0	0	0	0
94	SIMAS	151	56	33	48	57	99	104	106	110	150	151	0	0
	ICAPS	64	17	9	56	59	61	64	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4				SONAR DEPTH 500																	
SENSOR 19				TARGET DEPTH 30																	
PUM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
90	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
84	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
85	SIMAS	53	5	4	49	50	52	53	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
86	SIMAS	55	12	5	49	55	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
87	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
88	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
89	SIMAS	56	17	8	48	56	0	0	0	0	0	0	0	0	0						
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0	0						
90	SIMAS	104	24	13	48	56	103	104	0	0	0	0	0	0	0						
	ICAPS	58	6	4	57	58	0	0	0	0	0	0	0	0	0						
91	SIMAS	104	32	20	48	56	102	104	0	0	0	0	0	0	0						
	ICAPS	63	10	5	57	59	62	63	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		SONAR DEPTH 600																	
SENSOR 19		TARGE DEPTH 60																	
DATA	RFA	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
92	SIMAS	107	43	26	48	56	99	104	106	107	0	0	0	0	0	0	0	0	0
92	ICAPS	67	12	7	57	59	62	63	0	0	0	0	0	0	0	0	0	0	0
93	SIMAS	151	53	30	48	57	99	104	106	110	150	151	0	0	0	0	0	0	0
93	ICAPS	53	13	7	57	59	61	63	0	0	0	0	0	0	0	0	0	0	0
94	SIMAS	151	57	34	48	57	99	104	106	110	150	151	0	0	0	0	0	0	0
94	ICAPS	64	17	9	56	59	61	64	0	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	KCONT	R41	R52	R31	R32	R41	R42	R51	R52	R61	R62
79	SIMAS	8	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	3	5	55	57	0	0	0	0	0	0	0	0
81	SIMAS	46	11	9	47	48	0	0	0	0	0	0	0	0
	ICAPS	59	11	5	54	59	0	0	0	0	0	0	0	0
82	SIMAS	56	16	10	47	42	50	51	55	56	0	0	0	0
	ICAPS	114	14	6	54	59	113	114	0	0	0	0	0	0
83	SIMAS	56	20	11	46	51	54	56	0	0	0	0	0	0
	ICAPS	114	15	6	54	60	113	114	0	0	0	0	0	0
84	SIMAS	56	23	12	46	53	0	0	0	0	0	0	0	0
	ICAPS	171	20	6	54	60	112	116	170	171	0	0	0	0
85	SIMAS	106	27	14	46	55	105	106	0	0	0	0	0	0
	ICAPS	171	22	7	54	60	111	116	170	171	0	0	0	0
86	SIMAS	106	32	15	45	55	101	102	104	106	0	0	0	0
	ICAPS	171	23	7	54	61	111	116	170	171	0	0	0	0
87	SIMAS	107	37	16	44	56	98	99	101	102	104	107	0	0
	ICAPS	173	26	7	54	62	111	116	168	173	0	0	0	0
88	SIMAS	153	43	18	41	53	97	102	104	107	152	153	0	0
	ICAPS	173	29	7	54	62	111	117	168	173	0	0	0	0
89	SIMAS	153	54	19	36	58	97	102	104	107	152	153	0	0
	ICAPS	173	30	7	54	62	111	118	166	173	0	0	0	0
90	SIMAS	153	65	21	32	59	97	108	148	149	152	153	0	0
	ICAPS	173	34	9	54	62	111	120	168	173	0	0	0	0
91	SIMAS	156	79	24	28	60	96	109	148	153	155	156	0	0
	ICAPS	173	40	9	52	63	111	121	160	173	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		SONAR DEPTH 600																	
SENSOR 19		TARGET DEPTH 600																	
FOV	DATA	RMA	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
92	SIMAS	200	52	62	94	111	148	156	161	162	199	200	0	0					
	ICAFS	177	45	9	52	66	111	121	168	177	0	0	0	0					
93	SIMAS	200	59	62	99	111	148	156	160	162	199	200	0	0					
	ICAFS	177	47	9	52	66	111	122	167	177	0	0	0	0					
94	SIMAS	200	108	63	87	111	145	162	199	200	0	0	0	0					
	ICAFS	177	49	10	52	66	110	122	167	177	0	0	0	0					

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
SONAR 23 TARGET DEPTH 60

FORM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	4	3	1	3	4	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
66	SIMAS	4	3	1	3	4	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
67	SIMAS	4	3	1	3	4	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
68	SIMAS	8	6	4	7	8	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
69	SIMAS	8	6	4	7	8	0	0	0	0	0	0	0	0
	ICAPS	9	8	6	8	9	0	0	0	0	0	0	0	0
70	SIMAS	11	9	5	7	8	10	11	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
71	SIMAS	11	9	5	7	8	10	11	0	0	0	0	0	0
	ICAPS	9	9	9	0	0	0	0	0	0	0	0	0	0
72	SIMAS	11	10	8	10	11	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
73	SIMAS	15	12	8	10	11	14	15	0	0	0	0	0	0
	ICAPS	12	12	12	0	0	0	0	0	0	0	0	0	0
74	SIMAS	16	14	8	10	12	14	16	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
75	SIMAS	19	18	8	10	19	0	0	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0
76	SIMAS	22	20	8	10	19	21	22	0	0	0	0	0	0
	ICAPS	15	15	15	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
SENSOR 23 TARGET DEPTH 60

ITEM	DATA	RMAX	TOTAL	SCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	26	23	19	21	22	25	26	0	0	0	0	0	0
	ICAPS	18	17	15	17	18	0	0	0	0	0	0	0	0
78	SIMAS	26	25	19	21	26	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
79	SIMAS	30	30	30	0	0	0	0	0	0	0	0	0	0
	ICAPS	23	23	23	0	0	0	0	0	0	0	0	0	0
80	SIMAS	34	33	30	32	34	0	0	0	0	0	0	0	0
	ICAPS	27	25	23	26	27	0	0	0	0	0	0	0	0
81	SIMAS	37	36	34	36	37	0	0	0	0	0	0	0	0
	ICAPS	28	27	24	26	28	0	0	0	0	0	0	0	0
82	SIMAS	41	40	38	40	41	0	0	0	0	0	0	0	0
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0
83	SIMAS	52	44	38	40	41	44	45	51	52	0	0	0	0
	ICAPS	29	29	29	0	0	0	0	0	0	0	0	0	0
84	SIMAS	55	50	30	40	45	47	48	51	52	54	55	0	0
	ICAPS	32	31	29	31	32	0	0	0	0	0	0	0	0
85	SIMAS	55	52	45	47	48	51	55	0	0	0	0	0	0
	ICAPS	38	36	32	34	35	37	38	0	0	0	0	0	0
86	SIMAS	55	54	45	47	55	0	0	0	0	0	0	0	0
	ICAPS	44	42	30	40	41	43	44	0	0	0	0	0	0
87	SIMAS	59	57	45	47	56	58	59	0	0	0	0	0	0
	ICAPS	60	44	38	40	41	43	44	59	60	0	0	0	0
88	SIMAS	63	60	56	58	59	62	63	0	0	0	0	0	0
	ICAPS	61	47	44	59	61	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
 SENSOR 23 TARGET DEPTH 600

FORM	DATA	RNA	TOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
55	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0
56	SIMAS	1	1	0	0	0	0	0	0	0	0	0	0
56	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0
57	SIMAS	1	1	0	0	0	0	0	0	0	0	0	0
57	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0
58	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
58	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
59	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
59	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
60	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
60	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
61	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
61	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
62	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
62	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
63	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
63	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
64	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
64	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
65	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
66	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
67	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
68	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
69	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
70	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
71	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
72	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
73	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
74	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
75	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
76	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
77	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
78	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
79	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
80	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 60
 SENSOR 23 TARGET DEPTH 600

FCM	DATA	EMAX	RTOTAL	NLONT	N21	P22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
83	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
84	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
85	SIMAS	53	8	4	49	50	52	53	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
86	SIMAS	53	10	5	49	53	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
87	SIMAS	55	12	5	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
88	SIMAS	55	13	6	49	55	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4				SONAR DEPTH 300										
SENSOR 23				TARGET DEPTH 60										
FUM	DATA	MAX	INITIAL	RCOUNT	R21	R22	R23	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	9	8	6	8	9	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	10	10	10	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
74	SIMAS	16	14	10	12	13	15	16	0	0	0	0	0	0
	ICAPS	8	8	9	0	0	0	0	0	0	0	0	0	0
75	SIMAS	16	15	13	15	16	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
76	SIMAS	17	16	13	15	17	0	0	0	0	0	0	0	0
	ICAPS	10	11	9	11	12	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4 SONAR DEPTH 300
SENSOR 23 TARGET DEPTH 50

FUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	20	13	13	15	17	19	20	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
78	SIMAS	20	19	17	19	20	0	0	0	0	0	0	0	0
	ICAPS	13	13	13	0	0	0	0	0	0	0	0	0	0
79	SIMAS	21	20	17	19	21	0	0	0	0	0	0	0	0
	ICAPS	17	16	13	15	17	0	0	0	0	0	0	0	0
80	SIMAS	23	22	17	19	23	0	0	0	0	0	0	0	0
	ICAPS	10	19	18	0	0	0	0	0	0	0	0	0	0
81	SIMAS	27	26	24	26	27	0	0	0	0	0	0	0	0
	ICAPS	22	21	18	20	22	0	0	0	0	0	0	0	0
82	SIMAS	31	28	24	26	27	30	31	0	0	0	0	0	0
	ICAPS	22	22	22	0	0	0	0	0	0	0	0	0	0
83	SIMAS	52	52	24	26	31	51	52	0	0	0	0	0	0
	ICAPS	27	26	23	25	27	0	0	0	0	0	0	0	0
84	SIMAS	52	34	31	50	52	0	0	0	0	0	0	0	0
	ICAPS	31	29	27	30	31	0	0	0	0	0	0	0	0
85	SIMAS	54	40	35	50	54	0	0	0	0	0	0	0	0
	ICAPS	32	32	32	0	0	0	0	0	0	0	0	0	0
86	SIMAS	55	41	35	50	55	0	0	0	0	0	0	0	0
	ICAPS	36	34	32	-	36	0	0	0	0	0	0	0	0
87	SIMAS	55	41	35	50	55	0	0	0	0	0	0	0	0
	ICAPS	60	41	37	40	41	59	60	0	0	0	0	0	0
88	SIMAS	55	47	39	43	44	50	55	0	0	0	0	0	0
	ICAPS	61	43	37	39	41	50	61	0	0	0	0	0	0

L. FINGER	4	SOGAR	12TH	500
		TARGET	12TH	600

[illegible]

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4				SINUS DEPTH 3									
SENSOR 23				TARGET DEPTH 4									
FDM	DATA	NPRA	INITIAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SINUS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	0	0	0	0	0	0	0	0	0	0
78	SINUS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	0	0	0	0	0	0	0	0	0	0
79	SINUS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	0	0	0	0	0	0	0	0	0	0
80	SINUS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	0	0	0	0	0	0	0	0	0	0
81	SINUS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	0	0	0	0	0	0	0	0	0	0
82	SINUS	50	6	49	50	0	0	0	0	0	0	0	0
	ICAFS	4	4	0	0	0	0	0	0	0	0	0	0
83	SINUS	50	6	49	50	0	0	0	0	0	0	0	0
	ICAFS	4	4	0	0	0	0	0	0	0	0	0	0
84	SINUS	54	10	48	50	52	54	0	0	0	0	0	0
	ICAFS	5	5	0	0	0	0	0	0	0	0	0	0
85	SINUS	54	11	48	50	52	54	0	0	0	0	0	0
	ICAFS	5	5	0	0	0	0	0	0	0	0	0	0
86	SINUS	55	12	48	50	52	55	0	0	0	0	0	0
	ICAFS	5	5	0	0	0	0	0	0	0	0	0	0
87	SINUS	55	13	48	50	52	55	0	0	0	0	0	0
	ICAFS	5	5	0	0	0	0	0	0	0	0	0	0
88	SINUS	105	21	48	56	100	101	103	105	0	0	0	0
	ICAFS	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

EXPERIMENT 4 SONAR DEPTH 60
 CLASSON 23-11-60

EXP	DATA	DATA	SIGNAL	POINT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	1000	4	3	1	1	1	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
63	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
64	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
65	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
66	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
67	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
68	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
69	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
70	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
71	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
72	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0
73	1000	4	4	4	0	0	0	0	0	0	0	0	0	0
	1000	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		COMBAT 100		60										
SENSOR 23H		TARGET 23H		60										
74	DATA	RMAS	PCONT	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	10	10	12	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	11	11	0	0	0	0	0	0	0	0	0	0
75	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	11	11	11	0	0	0	0	0	0	0	0	0	0
76	SIMAS	14	14	14	0	0	0	0	0	0	0	0	0	0
	ICAFS	17	17	17	0	0	0	0	0	0	0	0	0	0
77	SIMAS	17	16	14	16	17	0	0	0	0	0	0	0	0
	ICAFS	17	17	17	0	0	0	0	0	0	0	0	0	0
78	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAFS	17	17	17	0	0	0	0	0	0	0	0	0	0
79	SIMAS	21	22	18	20	21	0	0	0	0	0	0	0	0
	ICAFS	17	17	17	0	0	0	0	0	0	0	0	0	0
80	SIMAS	21	20	18	20	21	0	0	0	0	0	0	0	0
	ICAFS	22	19	17	21	22	0	0	0	0	0	0	0	0
81	SIMAS	21	21	21	0	0	0	0	0	0	0	0	0	0
	ICAFS	22	19	17	21	22	0	0	0	0	0	0	0	0
82	SIMAS	22	22	22	0	0	0	0	0	0	0	0	0	0
	ICAFS	22	21	17	19	22	0	0	0	0	0	0	0	0
83	SIMAS	25	24	22	24	25	0	0	0	0	0	0	0	0
	ICAFS	22	22	22	0	0	0	0	0	0	0	0	0	0
84	SIMAS	23	23	25	27	23	0	0	0	0	0	0	0	0
	ICAFS	25	25	25	0	0	0	0	0	0	0	0	0	0
85	SIMAS	28	27	25	27	28	0	0	0	0	0	0	0	0
	ICAFS	25	25	25	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 60
 SENSOR 234 TARGET DEPTH 600

Run	DATA	RMAX	CRITICAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4		SONAR TEST 50												
SENSOR 231		TARGET 500												
COM	DATA	RMAX	RMIN	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 4 SONAR DEPTH 100
 SENSOR 2301 TARGET DEPTH 60

FOA	ICAT	IRMA	ICOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	6	5	3	3	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	6	5	3	5	6	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	6	4	6	7	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 4				SONAR DEPTH		SENSOR 2311													TARGET DEPTH							
FOM		DATA		RMAX		RMIN		R1													R2					

ENVIRONMENT	4	3	2	1	0
SENSES	100	100	100	100	100

[illegible]

ENVIRONMENT 4	SOURCE REF ID	350
SENSOR 15M	TARGET REF ID	600

[illegible]

SENSOR PERFORMANCE CHART

ENVIRONMENT SENSOR	5	SONAR DEPTH		RCOUNT	R											
		DATA	RMAX	RTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62		
96	2	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0
		ICAPS	3	3	0	0	0	0	0	0	0	0	0	0	0	0
97	2	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0
		ICAPS	3	3	0	0	0	0	0	0	0	0	0	0	0	0
98	2	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0
		ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0
99	2	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0
		ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0
100	2	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0
		ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0
101	2	SIMAS	66	5	3	64	66	0	0	0	0	0	0	0	0	0
		ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0
102	2	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0	0
		ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0
103	2	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0	0
		ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0
104	2	SIMAS	66	6	3	64	66	0	0	0	0	0	0	0	0	0
		ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0	0
105	2	SIMAS	66	7	3	63	66	0	0	0	0	0	0	0	0	0
		ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0	0
106	2	SIMAS	67	8	3	63	67	0	0	0	0	0	0	0	0	0
		ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0	0
107	2	SIMAS	67	8	3	63	67	0	0	0	0	0	0	0	0	0
		ICAPS	67	7	3	64	67	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5		SONAR DEPTH	
SENSOR 2		TARGET DEPTH	
FOM	DATA	KMAX	RTOTAL
1000	SIMAS	67	8
1000	ILAPS	67	7

R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
63	67	0	0	0	0	0	0	0	0
64	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 20
 SONAR 2 TARGET DEPTH 500

ENV	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
97	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
98	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
99	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
100	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
101	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
102	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
103	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
104	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
105	SIMAS	66	8	5	64	66	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
106	SIMAS	66	10	5	62	66	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
107	SIMAS	66	10	5	62	66	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT		SONAR DEPTH																	
SENSOR		20																	
		600																	
FOM	DATA	EMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
	SIMAS	66	10	5	62	66	0	0	0	0	0	0	0	0					
100	ICAFS	65	7	5	64	65	0	0	0	0	0	0	0	0					

SENSOR PERFORMANCE CHART

STATION	CLOCK	CUMUL DEPTH		INITIAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
		60	TARGET DEPTH	60											
93	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
93	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
94	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
94	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
95	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
95	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
96	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
96	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
97	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
97	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
98	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
98	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
99	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
99	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
100	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
100	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
101	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
101	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
102	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
102	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
103	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
103	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
104	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0
104	DATA	65	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 60

FOV	DATA	RMAX	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
100	51m/s	60	8	4	63	66	0	0	0	0	0	0	0	0
100	10m/s	60	6	4	65	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

101-104 5 SONAR DEPTH 60
105-108 6 TARGET DEPTH 600

1	DATA	ERR	MAX	IF TOTAL	R COUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
101	SIMAS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
102	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
103	SIMAS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
104	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
105	SIMAS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
106	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
107	SIMAS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
108	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
109	SIMAS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
110	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
111	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
112	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
113	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
114	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
115	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
116	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
117	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
118	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
119	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
120	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
121	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
122	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
123	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
124	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
125	SIMAS	63	6	4	4	62	63	0	0	0	0	0	0	0	0
126	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

EQUATION OF		SENSOR		5		6		60		600	
DATA		RMEX		INTOTAL		RCOUNT		R21		R22	
R21		R31		R32		R41		R42		R51	
R52		R61		R62							
104	DATA	63	6	4	62	63	0	0	0	0	0
105	DATA	64	6	4	63	64	0	0	0	0	0

SENSOR PERFORMANCE CHART

BALLONMENT 5 SONAR DEPTH 600
 SURFACE 6 TARGET DEPTH 60

FROM	DATA	RMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
V3	10000	2	1	2	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V4	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V5	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V6	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V7	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V8	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V9	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V10	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V11	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V12	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V13	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V14	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V15	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V16	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V17	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V18	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V19	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0
V20	10000	3	3	3	0	0	0	0	0	0	0	0	0	0
	10000	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 600
CLUTTER 6 TARGET DEPTH 60

FCM	DATA	RMAX	KTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
105		4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

TIME	DATA	KMAX	INTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	62	58	46	48	54	58	62	0	0	0	0	0	0
94	SIMAS	12	12	12	0	0	0	0	0	0	0	0	0	0
	ICAPS	70	62	54	58	62	68	70	0	0	0	0	0	0
95	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	70	66	55	57	63	67	70	0	0	0	0	0	0
96	SIMAS	15	15	15	0	0	0	0	0	0	0	0	0	0
	ICAPS	78	70	55	57	63	66	71	77	78	0	0	0	0
97	SIMAS	16	16	16	0	0	0	0	0	0	0	0	0	0
	ICAPS	79	73	63	66	71	76	79	0	0	0	0	0	0
98	SIMAS	78	18	16	77	73	0	0	0	0	0	0	0	0
	ICAPS	79	76	71	75	79	0	0	0	0	0	0	0	0
99	SIMAS	78	21	17	74	75	77	78	0	0	0	0	0	0
	ICAPS	87	80	72	75	79	85	87	0	0	0	0	0	0
100	SIMAS	78	24	17	66	68	74	75	77	78	0	0	0	0
	ICAPS	83	85	80	84	88	0	0	0	0	0	0	0	0
101	SIMAS	78	26	17	64	68	74	75	77	78	0	0	0	0
	ICAPS	95	87	80	84	88	94	95	0	0	0	0	0	0
102	SIMAS	78	27	17	64	68	74	78	0	0	0	0	0	0
	ICAPS	96	91	81	83	88	93	96	0	0	0	0	0	0
103	SIMAS	80	35	17	62	70	72	80	0	0	0	0	0	0
	ICAPS	104	98	89	92	97	102	104	0	0	0	0	0	0
104	SIMAS	82	41	18	60	82	0	0	0	0	0	0	0	0
	ICAPS	105	99	89	92	97	102	105	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

FORM	DATA	KMA	INITIAL	RCONT	R2'	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	83	42	18	60	83	0	0	0	0	0	0	0	0
105	ICAFS	112	104	97	101	105	111	112	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT		5	SONAR DEPTH		20	SONAR DEPTH		60												
SENSOR		7	TARGET DEPTH		60	TARGET DEPTH		60												
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
61	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0						
62	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0						
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0						
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0						
84	SIMAS	3	3	7	0	0	0	0	0	0	0	0	0	0						
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0						
85	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0						
86	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0						
87	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0						
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT		5	SONAR DEPTH		20																						
SENSOR		7	TARGET DEPTH		600																						
104	DATA	1	KMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62												
01	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0												
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0												
02	SIMAS	2	2	2	2	0	0	0	0	0	0	0	0	0	0												
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0												
03	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0												
04	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
	ICAPS	2	2	2	2	0	0	0	0	0	0	0	0	0	0												
05	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
06	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
07	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0												

DEPTH	DEPTH	DEPTH
60	60	60
60	60	60

551

SENSOR PERFORMANCE CHART

LOG #	DATE	TIME	DEPTH	600	DEPTH	60	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
100	10/10/68	1000	1000	600	60	60	60	4	62	63	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	4	63	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	62	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	4	63	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	62	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	4	63	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	62	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	4	63	65	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	62	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	4	63	65	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	61	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	63	65	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	61	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	63	67	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	61	64	0	0	0	0	0	0	0	0
100	10/10/68	1000	1000	600	60	60	60	5	63	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

LOCATION 5
 GROUP 9

SONAR DEPTH 600
 TARGET DEPTH 600

TIME	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
95	SIMAS	84	37	13	60	79	81	84	0	0	0	0	0	0
	ICAPS	98	98	98	0	0	0	0	0	0	0	0	0	0
96	SIMAS	84	41	16	60	84	0	0	0	0	0	0	0	0
	ICAPS	104	104	104	0	0	0	0	0	0	0	0	0	0
97	SIMAS	85	42	16	60	85	0	0	0	0	0	0	0	0
	ICAPS	110	110	110	0	0	0	0	0	0	0	0	0	0
98	SIMAS	85	43	16	59	85	0	0	0	0	0	0	0	0
	ICAPS	117	117	117	0	0	0	0	0	0	0	0	0	0
99	SIMAS	85	43	16	59	85	0	0	0	0	0	0	0	0
	ICAPS	135	128	122	127	130	134	135	0	0	0	0	0	0
98	SIMAS	86	45	17	59	86	0	0	0	0	0	0	0	0
	ICAPS	136	136	136	0	0	0	0	0	0	0	0	0	0
99	SIMAS	129	47	17	59	86	128	129	0	0	0	0	0	0
	ICAPS	142	142	142	0	0	0	0	0	0	0	0	0	0
100	SIMAS	129	49	17	59	86	125	126	128	129	0	0	0	0
	ICAPS	146	146	146	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SUNAR DEPTH 200
 SENSOR 15 TARGET DEPTH 60

Run	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	66	4	2	65	66	0	0	0	0	0	0	0	0
81	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAFS	66	5	3	65	66	0	0	0	0	0	0	0	0
82	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAFS	66	5	3	65	66	0	0	0	0	0	0	0	0
83	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0
	ICAFS	66	5	3	65	66	0	0	0	0	0	0	0	0
84	SIMAS	65	6	3	63	65	0	0	0	0	0	0	0	0
	ICAFS	131	8	3	64	66	130	131	0	0	0	0	0	0
85	SIMAS	129	9	4	63	65	128	129	0	0	0	0	0	0
	ICAFS	131	9	4	64	66	130	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 200
 JUNK 15 TARGET DEPTH 50

FOU	DATA	RMAX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
65	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0
67	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
67	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0
69	SIMAS	130	11	4	63	66	128	130	0	0	0	0	0	0
69	ICAPS	131	9	4	64	66	130	131	0	0	0	0	0	0
69	SIMAS	130	13	4	6	7	63	66	128	130	0	0	0	0
69	ICAPS	130	11	4	64	66	130	131	195	196	0	0	0	0
70	SIMAS	193	23	4	6	8	13	19	63	66	128	130	192	193
70	ICAPS	193	13	6	64	66	130	131	195	196	0	0	0	0
71	SIMAS	194	41	30	62	66	128	130	192	194	0	0	0	0
71	ICAPS	195	16	6	64	67	129	132	195	196	0	0	0	0
72	SIMAS	194	52	38	62	66	127	132	192	194	0	0	0	0
72	ICAPS	195	18	7	63	67	129	132	195	196	0	0	0	0
73	SIMAS	195	50	43	62	66	127	132	192	195	0	0	0	0
73	ICAPS	198	22	7	63	68	129	132	194	198	0	0	0	0
74	SIMAS	196	64	48	62	66	127	132	192	196	0	0	0	0
74	ICAPS	196	22	7	63	68	129	132	194	198	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 200
 BURST 15 TARGET DEPTH 600

FORM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
79	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
80	SIMAS	65	8	6	64	65	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	66	10	7	64	66	0	0	0	0	0	0	0	0
	ICAPS	67	7	5	66	67	0	0	0	0	0	0	0	0
82	SIMAS	66	13	7	61	66	0	0	0	0	0	0	0	0
	ICAPS	67	7	5	-	67	0	0	0	0	0	0	0	0
83	SIMAS	69	15	7	61	66	68	69	0	0	0	0	0	0
	ICAPS	67	9	5	63	64	64	67	0	0	0	0	0	0
84	SIMAS	69	17	8	61	69	0	0	0	0	0	0	0	0
	ICAPS	68	11	5	63	68	0	0	0	0	0	0	0	0
85	SIMAS	72	20	8	61	72	0	0	0	0	0	0	0	0
	ICAPS	71	15	6	63	71	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 60

FUN	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	66	6	4	65	66	0	0	0	0	0	0	0	0
	ICAPS	66	6	3	64	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

Experiment 5 SONAR DEPTH 500
 of Book 15 Target Depth 60

Run	DATA	RNAA	TOTAL	NCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
1	SINAS	66	6	4	65	66	0	0	0	0	0	0	0	0
2	SINAS	66	9	5	63	66	0	0	0	0	0	0	0	0
3	SINAS	66	9	5	63	66	0	0	0	0	0	0	0	0
4	SINAS	66	9	5	63	66	0	0	0	0	0	0	0	0
5	SINAS	66	12	7	62	66	0	0	0	0	0	0	0	0
6	SINAS	132	11	5	63	66	131	132	0	0	0	0	0	0
7	SINAS	131	16	7	62	66	127	128	130	131	0	0	0	0
8	SINAS	132	12	5	63	67	131	132	0	0	0	0	0	0
9	SINAS	132	26	9	13	19	61	66	127	132	0	0	0	0
10	SINAS	132	27	5	63	67	129	132	0	0	0	0	0	0
11	SINAS	132	42	30	61	66	127	132	0	0	0	0	0	0
12	SINAS	132	19	7	63	68	129	132	174	195	0	0	0	0
13	SINAS	132	54	38	61	66	127	132	191	192	194	195	0	0
14	SINAS	132	22	7	63	68	128	132	194	195	197	198	0	0
15	SINAS	132	39	43	61	66	127	132	191	192	194	195	0	0
16	SINAS	132	22	7	63	68	128	132	194	195	197	198	0	0
17	SINAS	132	26	48	61	66	127	133	191	195	0	0	0	0
18	SINAS	132	24	8	63	69	128	132	194	195	197	198	0	0

DEPTH	DEPTH	DEPTH
5	5	5
15	15	15
500	500	500
600	600	600

LINE	ITEM	QTY	PRICE	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
14	SLIMS	6	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	6	0	0	0	0	0	0	0	0	0	0
15	SLIMS	6	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	7	0	0	0	0	0	0	0	0	0	0
16	SLIMS	7	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	7	0	0	0	0	0	0	0	0	0	0
17	SLIMS	7	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	7	0	0	0	0	0	0	0	0	0	0
18	SLIMS	8	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	7	0	0	0	0	0	0	0	0	0	0
19	SLIMS	9	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
20	SLIMS	9	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	8	0	0	0	0	0	0	0	0	0	0
21	SLIMS	10	10	10	10	62	65	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
22	SLIMS	15	15	15	15	62	65	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
23	SLIMS	18	18	18	18	62	68	0	0	0	0	0	0	0	0
	ICAPS	9	9	9	9	0	0	0	0	0	0	0	0	0	0
24	SLIMS	21	21	21	21	62	68	0	0	0	0	0	0	0	0
	ICAPS	12	12	12	12	63	65	0	0	0	0	0	0	0	0
25	SLIMS	29	29	29	29	60	69	71	75	0	0	0	0	0	0
	ICAPS	17	17	17	17	62	69	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 500
CIRCUIT 15 TARGET DEPTH 600

FORM	DATA	RMAS	IRTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	128	34	15	60	76	127	128	0	0	0	0	0	0
	ICAPS	59	17	9	62	69	0	0	0	0	0	0	0	0
87	SIMAS	129	40	17	60	77	125	129	0	0	0	0	0	0
	ICAPS	133	23	9	62	72	131	133	0	0	0	0	0	0
88	SIMAS	131	49	19	60	81	124	131	0	0	0	0	0	0
	ICAPS	133	27	9	62	74	128	129	131	133	0	0	0	0
89	SIMAS	141	55	21	60	82	124	132	140	141	0	0	0	0
	ICAPS	133	31	9	62	77	128	133	0	0	0	0	0	0
90	SIMAS	193	69	24	60	83	124	135	140	141	187	193	0	0
	ICAPS	196	39	9	62	80	82	83	127	133	195	196	0	0
91	SIMAS	193	88	32	59	84	86	87	124	136	139	142	146	149
	ICAPS	196	54	9	62	86	90	92	97	100	127	133	135	136
92	SIMAS	177	119	40	59	89	124	137	139	142	145	150	155	157
	ICAPS	196	78	10	62	113	127	133	135	137	190	191	193	196
93	SIMAS	198	125	44	59	91	122	142	144	151	153	159	187	198
	ICAPS	199	88	10	61	117	126	133	135	138	190	196	198	199
94	SIMAS	200	136	48	59	92	122	161	187	200	0	0	0	0
	ICAPS	206	69	12	61	118	126	143	190	200	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5				SONAR DEPTH 60																						
SENSOR 19				TARGET DEPTH 60																						
COM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62												
80	SIMAS	65	6	4	64	65	0	0	0	0	0	0	0	0	0											
	ICAFS	66	5	3	65	66	0	0	0	0	0	0	0	0												
81	SIMAS	129	9	4	64	66	128	129	0	0	0	0	0	0	0											
	ICAFS	131	7	3	65	66	130	131	0	0	0	0	0	0												
82	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0	0											
	ICAFS	131	10	4	64	67	130	131	0	0	0	0	0	0												
83	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0	0											
	ICAFS	131	10	4	64	67	130	131	0	0	0	0	0	0												
84	SIMAS	130	11	4	63	66	128	130	0	0	0	0	0	0	0											
	ICAFS	131	11	5	64	67	130	131	0	0	0	0	0	0												
85	SIMAS	131	15	6	63	67	128	131	0	0	0	0	0	0	0											
	ICAFS	196	14	5	64	68	130	131	195	196	0	0	0	0												
86	SIMAS	194	19	7	63	67	128	131	192	194	0	0	0	0	0											
	ICAFS	196	16	6	64	68	130	132	195	196	0	0	0	0												
87	SIMAS	194	20	7	62	67	128	131	192	194	0	0	0	0	0											
	ICAFS	196	18	6	63	68	129	132	195	196	0	0	0	0												
88	SIMAS	195	22	8	62	67	128	131	192	195	0	0	0	0	0											
	ICAFS	197	21	6	63	69	129	133	195	197	0	0	0	0												
89	SIMAS	195	23	8	62	67	127	131	192	195	0	0	0	0	0											
	ICAFS	197	24	8	63	70	129	133	195	197	0	0	0	0												
90	SIMAS	195	35	8	12	22	62	67	127	132	192	195	0	0	0											
	ICAFS	197	25	8	63	70	129	134	195	197	0	0	0	0												
91	SIMAS	195	53	36	62	68	127	132	192	195	0	0	0	0	0											
	ICAFS	197	27	8	61	70	129	134	195	197	0	0	0	0												

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5		SONAR DEPTH 60																			
SENSOR 19		TARGET DEPTH 60																			
FOH	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
92	SIMAS	198	63	42	61	68	127	132	192	198	0	0	0	0							
	ICAFS	197	29	8	61	71	129	135	195	197	0	0	0	0							
93	SIMAS	198	71	48	57	58	61	68	127	132	192	198	0	0							
	ICAFS	197	30	8	60	71	129	135	195	197	0	0	0	0							
94	SIMAS	198	75	51	57	58	60	68	127	132	192	198	0	0							
	ICAFS	199	35	8	60	72	129	136	194	199	0	0	0	0							

SENSOR PERFORMANCE CHART

ENVIRONMENT	5	SONAR DEPTH	DATA	RMAX	IRTOTAL	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
SENSOR 19		TARGET DEPTH													
F00	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
F01	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
F02	SIMAS	3	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
F03	SIMAS	67	5	5	5	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
F04	SIMAS	67	6	6	6	66	67	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
F05	SIMAS	67	8	8	8	63	64	66	67	0	0	0	0	0	0
	ICAPS	4	4	4	4	0	0	0	0	0	0	0	0	0	0
F06	SIMAS	67	10	10	10	62	64	66	67	0	0	0	0	0	0
	ICAPS	65	7	7	7	63	65	0	0	0	0	0	0	0	0
F07	SIMAS	67	11	11	11	62	64	66	67	0	0	0	0	0	0
	ICAPS	67	9	9	9	63	67	0	0	0	0	0	0	0	0
F08	SIMAS	67	12	12	12	62	67	0	0	0	0	0	0	0	0
	ICAPS	67	9	9	9	63	67	0	0	0	0	0	0	0	0
F09	SIMAS	131	16	16	16	62	67	130	131	0	0	0	0	0	0
	ICAPS	67	11	11	11	63	67	0	0	0	0	0	0	0	0
F10	SIMAS	131	25	25	25	13	19	61	67	130	131	0	0	0	0
	ICAPS	129	14	14	14	63	68	128	129	0	0	0	0	0	0
F11	SIMAS	131	42	42	42	61	67	127	128	130	131	0	0	0	0
	ICAPS	129	14	14	14	63	68	128	129	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 19 TARGET DEPTH 600

FOO	DATA	RMS	INITIAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	131	50	38	61	68	127	128	130	131	0	0	0	0
	ICAPS	197	21	6	62	68	128	129	132	133	194	197	0	0
93	SIMAS	195	62	43	61	68	126	131	191	195	0	0	0	0
	ICAPS	197	22	7	62	68	128	129	132	133	194	197	0	0
94	SIMAS	195	68	48	61	68	126	132	191	195	0	0	0	0
	ICAPS	197	25	8	62	69	128	129	132	133	193	197	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 600
 1000 HRS 15 TARGET BEARING 60

TIME	DATA	RMAX	RCTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SINAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICARS	3	3	3	0	0	0	0	0	0	0	0	0	0
91	SINAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICARS	3	3	3	0	0	0	0	0	0	0	0	0	0
92	SINAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICARS	4	4	4	0	0	0	0	0	0	0	0	0	0
93	SINAS	67	5	3	66	67	0	0	0	0	0	0	0	0
	ICARS	4	4	4	0	0	0	0	0	0	0	0	0	0
94	SINAS	67	4	4	66	67	0	0	0	0	0	0	0	0
	ICARS	4	4	4	0	0	0	0	0	0	0	0	0	0
95	SINAS	67	5	4	66	67	0	0	0	0	0	0	0	0
	ICARS	4	4	4	0	0	0	0	0	0	0	0	0	0
96	SINAS	67	10	5	62	64	66	67	0	0	0	0	0	0
	ICARS	65	7	4	63	65	0	0	0	0	0	0	0	0
97	SINAS	67	11	6	62	64	66	67	0	0	0	0	0	0
	ICARS	67	9	4	63	67	0	0	0	0	0	0	0	0
98	SINAS	67	12	6	62	67	0	0	0	0	0	0	0	0
	ICARS	67	8	4	63	67	0	0	0	0	0	0	0	0
99	SINAS	131	16	8	62	67	130	131	0	0	0	0	0	0
	ICARS	67	11	6	63	67	0	0	0	0	0	0	0	0
90	SINAS	131	25	9	13	19	61	67	130	131	0	0	0	0
	ICARS	129	14	6	63	68	128	129	0	0	0	0	0	0
91	SINAS	131	41	30	61	67	127	128	130	131	0	0	0	0
	ICARS	129	14	6	63	68	128	129	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5		SONAR DEPTH 600																	
SENSOR 19		TARGET DEPTH 60																	
FORM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62					
	SIMAS	131	50	38	61	68	127	128	130	131	0	0	0	0					
	ICAPS	197	21	6	62	68	128	129	132	133	194	197	0	0					
	SIMAS	175	62	43	61	68	126	131	191	195	0	0	0	0					
63	ICAPS	197	22	7	62	68	128	129	132	133	194	197	0	0					
	SIMAS	195	68	48	61	68	126	132	191	195	0	0	0	0					
64	ICAPS	197	23	8	62	69	128	129	132	133	193	197	0	0					

SENSOR PERFORMANCE CHART

LOG ELEMENT	S	SOMAS DEPTH	SENSOR 19	TARGET DEPTH	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
1	SONAS	10	10	10	0	0	0	0	0	0	0	0	0	0
2	SONAS	9	9	9	0	0	0	0	0	0	0	0	0	0
3	SONAS	11	11	11	0	0	0	0	0	0	0	0	0	0
4	SONAS	9	9	9	0	0	0	0	0	0	0	0	0	0
5	SONAS	67	15	15	63	64	66	67	0	0	0	0	0	0
6	SONAS	66	11	11	65	66	0	0	0	0	0	0	0	0
7	SONAS	76	23	23	60	68	75	76	0	0	0	0	0	0
8	SONAS	69	12	12	64	66	0	0	0	0	0	0	0	0
9	SONAS	79	72	72	60	69	71	79	0	0	0	0	0	0
10	SONAS	66	13	13	64	66	0	0	0	0	0	0	0	0
11	SONAS	31	36	36	60	81	0	0	0	0	0	0	0	0
12	SONAS	67	12	12	64	69	0	0	0	0	0	0	0	0
13	SONAS	128	40	40	60	83	127	128	0	0	0	0	0	0
14	SONAS	69	18	18	62	69	0	0	0	0	0	0	0	0
15	SONAS	131	43	43	60	83	127	128	130	131	0	0	0	0
16	SONAS	133	23	23	62	72	132	133	0	0	0	0	0	0
17	SONAS	157	52	52	59	84	127	131	155	157	0	0	0	0
18	SONAS	133	29	29	62	76	128	129	132	133	0	0	0	0
19	SONAS	189	68	68	59	86	127	132	148	149	152	159	188	189
20	SONAS	134	32	32	62	78	128	129	132	134	0	0	0	0
21	SONAS	193	90	90	59	87	125	132	134	136	140	141	147	161
22	SONAS	134	39	39	62	78	82	84	126	130	132	134	0	0
23	SONAS	194	104	104	59	88	125	136	139	141	146	162	187	194
24	SONAS	193	61	61	61	86	90	93	97	99	126	138	192	193

SENSOR PERFORMANCE CHART (CONT.)

SONAR DEPTH 600
TARGET DEPTH 600

DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
SIMAS	197	117	39	59	89	124	136	139	142	145	163	187	197
ICAPS	197	88	13	61	112	114	115	126	139	192	193	196	197
SIMAS	198	131	44	59	90	124	143	145	164	184	198	0	0
ICAPS	198	93	13	61	112	114	119	126	141	192	194	196	198
SIMAS	200	141	49	59	91	124	165	184	200	0	0	0	0
ICAPS	200	100	13	61	119	126	141	143	145	192	200	0	0

AD-A098 932

NAVAL OCEAN RESEARCH AND DEVELOPMENT ACTIVITY NSTL S--ETC F/G 20/1
ACOUSTIC MODEL SENSITIVITY TO INPUT DATA DIFFERENCES: OBJECTIVE--ETC(U)
SEP 80 B A BRUNSON
NORDA-TN-73-VOL-2

UNCLASSIFIED

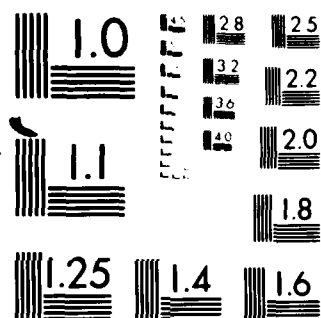
NL

1-7

AD
DISTRIBUTION



END
DATE
FILMED
81
DTIC



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 50
 SENSOR 23L TARGET DEPTH 50

FOR	DATA	KMA	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	66	4	2	65	66	0	0	0	0	0	0	0	0
	ICAPS	66	4	2	65	66	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT		S	SONAR DEPTH		60	SENSOR 23												TARGET DEPTH		60
FUN	DATA	MAX	R TOTAL	R CONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62		R62				
27	SIMAS	65	4	2	64	65	0	0	0	0	0	0	0	0	0	0				
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0	0				
28	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0	0				
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0	0				
29	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0	0				
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0	0				
30	SIMAS	65	5	3	64	65	0	0	0	0	0	0	0	0	0	0				
	ICAPS	66	5	3	65	66	0	0	0	0	0	0	0	0	0	0				
31	SIMAS	129	9	4	64	66	128	129	0	0	0	0	0	0	0	0				
	ICAPS	131	7	3	65	66	130	131	0	0	0	0	0	0	0	0				
32	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0	0	0				
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0	0	0				
33	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0	0	0				
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0	0	0				
34	SIMAS	130	11	4	63	66	128	130	0	0	0	0	0	0	0	0				
	ICAPS	131	11	5	64	67	130	131	0	0	0	0	0	0	0	0				
35	SIMAS	131	15	6	63	67	128	131	0	0	0	0	0	0	0	0				
	ICAPS	176	14	5	64	68	130	131	195	196	0	0	0	0	0	0				
36	SIMAS	194	19	7	63	67	128	131	192	194	0	0	0	0	0	0				
	ICAPS	196	16	6	64	68	130	132	195	196	0	0	0	0	0	0				
37	SIMAS	194	20	7	62	67	128	131	192	194	0	0	0	0	0	0				
	ICAPS	176	18	6	63	68	129	132	195	196	0	0	0	0	0	0				
38	SIMAS	195	22	8	62	67	128	131	192	195	0	0	0	0	0	0				
	ICAPS	177	21	6	63	69	129	133	195	197	0	0	0	0	0	0				

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 23 L TARGET DEPTH 600

Run	DATA	RMAX	RCTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
55	SIHAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
56	SIHAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
57	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
58	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
59	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
60	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
61	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
62	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
63	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
64	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
65	SIHAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIHAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT	5	SONAR DEPTH	60
ENEMY	3	TARGET DEPTH	600

[illegible]

SENSOR PERFORMANCE CHART

OBSERVATION 5
 SUNKER DEPTH 300
 TARGET DEPTH 50

ITEM	DATA	AREA	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
66	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SLANG	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SLANG	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SLANG	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SLANG	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SLANG	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SLANG	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

ENVIRONMENT	5	SONAR DEPTH	300
		TARGET DEPTH	60

FCM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
27	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
28	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
29	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
30	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
31	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	5	3	65	66	0	0	0	0	0	0	0	0
32	SIMAS	65	6	3	63	65	0	0	0	0	0	0	0	0
	ICAPS	66	6	3	64	66	0	0	0	0	0	0	0	0
33	SIMAS	65	6	3	63	65	0	0	0	0	0	0	0	0
	ICAPS	66	6	3	64	66	0	0	0	0	0	0	0	0
34	SIMAS	65	7	4	63	65	0	0	0	0	0	0	0	0
	ICAPS	131	8	3	64	66	130	131	0	0	0	0	0	0
35	SIMAS	66	8	4	63	66	0	0	0	0	0	0	0	0
	ICAPS	131	8	3	64	66	130	131	0	0	0	0	0	0
36	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
37	SIMAS	130	12	5	63	66	128	130	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0
38	SIMAS	130	13	5	63	66	127	130	0	0	0	0	0	0
	ICAPS	131	11	5	64	67	130	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 300
 SENSOR 231 TARGET DEPTH 600

FORM	DATA	RMAX	INTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 300
REF. OR 23 L TARGET DEPTH 200

Run	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
81	SIMAS	66	12	7	62	66	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
82	SIMAS	66	13	8	62	66	0	0	0	0	0	0	0	0
	ICAPS	67	10	7	65	67	0	0	0	0	0	0	0	0
83	SIMAS	68	16	9	62	68	0	0	0	0	0	0	0	0
	ICAPS	67	12	7	63	67	0	0	0	0	0	0	0	0
84	SIMAS	71	20	9	61	71	0	0	0	0	0	0	0	0
	ICAPS	68	13	7	63	68	0	0	0	0	0	0	0	0
85	SIMAS	71	20	9	61	71	0	0	0	0	0	0	0	0
	ICAPS	68	13	7	63	68	0	0	0	0	0	0	0	0
86	SIMAS	129	27	11	61	74	128	129	0	0	0	0	0	0
	ICAPS	131	18	7	63	71	130	131	0	0	0	0	0	0
87	SIMAS	129	32	12	60	75	126	129	0	0	0	0	0	0
	ICAPS	131	23	8	63	71	73	76	130	131	0	0	0	0
88	SIMAS	131	38	12	60	79	126	131	0	0	0	0	0	0
	ICAPS	131	32	8	62	82	129	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 234 TARGET DEPTH 60

FCM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAFS	129	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	4	0	0	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 2311 TARGET DEPTH 60

FORM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	5	5	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	66	3	65	66	0	0	0	0	0	0	0	0
82	SIMAS	65	65	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	66	3	65	66	0	0	0	0	0	0	0	0
83	SIMAS	65	65	3	64	65	0	0	0	0	0	0	0	0
	ICAPS	66	66	3	65	66	0	0	0	0	0	0	0	0
84	SIMAS	129	9	3	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	8	4	65	66	130	131	0	0	0	0	0	0
85	SIMAS	129	10	4	63	66	128	129	0	0	0	0	0	0
	ICAPS	131	10	4	64	67	130	131	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 23H TARGET DEPTH 600

FLM	DATA	KMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
70	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
71	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
72	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 60
 SENSOR 33a TARGET DEPTH 400

FOV	DATA	RNA	TOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	4	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
		63	64	63	64	63	64	63	64	63	64	63	64	63

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 300
 SENSOR 23H TARGET DEPTH 60

Run	DATA	MAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 5 SONAR DEPTH 300
 SURFACE 23H TARGET DEPTH 50

ION	DATA	EMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 5 SONAR DEPTH 300
 JNSON 23H TARGET DEPTH 600

ENV	DATA	RMAX	RTOTAL	R1	R22	R31	R32	R41	R42	R51	R52	R61	R62
63	SIMAS	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
64	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
71	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	4	4	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0
73	SIMAS	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT S SONAR DEPTH 300
 20000 25M TARGET DEPTH 600

SEN	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
78	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
79	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
80	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
81	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
82	SIMAS	8	8	8	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
83	SIMAS	65	12	8	62	65	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
84	SIMAS	67	16	9	61	67	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
85	SIMAS	69	18	9	61	69	0	0	0	0	0	0	0	0
	ICAPS	67	11	7	64	67	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	INTOTAL	RCONT	R01	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	9	4	43	47	0	0	0	0	0	0	0	0
97	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	10	4	42	47	0	0	0	0	0	0	0	0
98	SIMAS	48	8	3	44	48	0	0	0	0	0	0	0	0
	ICAPS	47	10	4	42	47	0	0	0	0	0	0	0	0
99	SIMAS	48	9	3	43	48	0	0	0	0	0	0	0	0
	ICAPS	48	11	4	42	48	0	0	0	0	0	0	0	0
100	SIMAS	49	10	3	43	49	0	0	0	0	0	0	0	0
	ICAPS	48	11	4	42	48	0	0	0	0	0	0	0	0
101	SIMAS	49	11	4	43	49	0	0	0	0	0	0	0	0
	ICAPS	50	13	4	42	50	0	0	0	0	0	0	0	0
102	SIMAS	50	12	4	43	50	0	0	0	0	0	0	0	0
	ICAPS	50	13	4	42	50	0	0	0	0	0	0	0	0
103	SIMAS	50	13	4	42	50	0	0	0	0	0	0	0	0
	ICAPS	50	13	4	42	50	0	0	0	0	0	0	0	0
104	SIMAS	50	13	4	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	14	4	42	51	0	0	0	0	0	0	0	0
105	SIMAS	50	13	4	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
106	SIMAS	50	14	4	41	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
107	SIMAS	50	14	4	41	50	0	0	0	0	0	0	0	0
	ICAPS	52	16	4	41	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 60

FOM	DATA	RMAX	ITOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
	SIMAS	50	14	4	41	50	0	0	0	0	0	0	0	0
108	ICAPS	52	16	4	41	52	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
 SENSOR 2 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
96	SIMAS	44	5	3	43	44	0	0	0	0	0	0	0	0
	ICAPS	44	6	4	43	44	0	0	0	0	0	0	0	0
97	SIMAS	44	6	4	43	44	0	0	0	0	0	0	0	0
	ICAPS	44	7	4	42	44	0	0	0	0	0	0	0	0
98	SIMAS	44	6	4	43	44	0	0	0	0	0	0	0	0
	ICAPS	44	7	4	42	44	0	0	0	0	0	0	0	0
99	SIMAS	47	9	4	43	47	0	0	0	0	0	0	0	0
	ICAPS	45	8	4	42	45	0	0	0	0	0	0	0	0
100	SIMAS	47	9	4	43	47	0	0	0	0	0	0	0	0
	ICAPS	46	9	4	42	46	0	0	0	0	0	0	0	0
101	SIMAS	48	10	4	43	48	0	0	0	0	0	0	0	0
	ICAPS	46	10	5	42	46	0	0	0	0	0	0	0	0
102	SIMAS	48	10	4	43	48	0	0	0	0	0	0	0	0
	ICAPS	47	11	5	42	47	0	0	0	0	0	0	0	0
103	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	47	12	5	41	47	0	0	0	0	0	0	0	0
104	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	50	15	5	41	50	0	0	0	0	0	0	0	0
105	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0
106	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0
107	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6		SONAR DEPTH 20															
SENSOR 2		TARGET DEPTH 400															
FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62			
	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0			
108	ICAPS	51	16	5	41	51	0	0	0	0	0	0	0	0			

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
SENSOR 6 TARGET DEPTH 60

FUM	DATA	KMX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	44	6	3	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	5	2	41	43	0	0	0	0	0	0	0	0
94	SIMAS	44	6	3	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	5	2	41	43	0	0	0	0	0	0	0	0
95	SIMAS	44	6	3	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	5	2	41	43	0	0	0	0	0	0	0	0
96	SIMAS	45	7	3	42	45	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
97	SIMAS	45	8	3	42	45	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
98	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	45	9	4	41	45	0	0	0	0	0	0	0	0
99	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
100	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
101	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
102	SIMAS	46	8	3	42	46	0	0	0	0	0	0	0	0
	ICAPS	46	10	4	41	46	0	0	0	0	0	0	0	0
103	SIMAS	47	12	4	42	47	0	0	0	0	0	0	0	0
	ICAPS	47	14	5	42	47	0	0	0	0	0	0	0	0
104	SIMAS	48	12	4	42	48	0	0	0	0	0	0	0	0
	ICAPS	48	14	5	42	48	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 60

FOI	DATA	RMAX	INTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	48	11	4	42	48	0	0	0	0	0	0	0	0
	ICAPS	48	15	6	40	48	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 50
SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
94	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
95	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
96	SIMAS	43	6	4	42	43	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
97	SIMAS	44	7	4	42	44	0	0	0	0	0	0	0	0
	ICAPS	43	6	3	41	43	0	0	0	0	0	0	0	0
98	SIMAS	44	7	4	42	44	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
99	SIMAS	45	8	4	42	45	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
100	SIMAS	45	8	4	42	45	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
101	SIMAS	45	8	4	42	45	0	0	0	0	0	0	0	0
	ICAPS	44	7	3	41	44	0	0	0	0	0	0	0	0
102	SIMAS	46	9	5	43	46	0	0	0	0	0	0	0	0
	ICAPS	45	8	4	42	45	0	0	0	0	0	0	0	0
103	SIMAS	47	10	6	44	47	0	0	0	0	0	0	0	0
	ICAPS	46	9	5	43	46	0	0	0	0	0	0	0	0
104	SIMAS	47	11	7	45	47	0	0	0	0	0	0	0	0
	ICAPS	46	10	6	44	46	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60
 SENSOR 6 TARGET DEPTH 600

	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
FOM				4	41	47	0	0	0	0	0	0	0	0
SIMAS	47		11											
ICAPS	47		13	5	40	47	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	IRTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
94	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
95	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
96	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
97	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
98	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
99	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
100	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
101	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
102	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
103	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
104	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

FOM	DATA	RMAX	IRTOTAL	ROUNDS	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	39	23	6	9	11	23	25	28	32	34	39	0	0
	ICAPS	55	52	42	46	55	0	0	0	0	0	0	0	0
94	SIMAS	43	27	6	9	11	22	25	28	39	42	43	0	0
	ICAPS	67	60		64	67	0	0	0	0	0	0	0	0
95	SIMAS	59	32	6	9	11	22	25	28	40	42	44	57	59
	ICAPS	68	61	54	64	68	0	0	0	0	0	0	0	0
96	SIMAS	59	33	6	9	11	22	25	28	40	42	45	57	59
	ICAPS	68	67	58	60	68	0	0	0	0	0	0	0	0
97	SIMAS	59	38	7	9	11	22	25	27	46	52	53	57	59
	ICAPS	80	70	61	79	80	0	0	0	0	0	0	0	0
98	SIMAS	65	43	6	9	12	22	25	27	46	52	55	57	59
	ICAPS	81	76	61	75	81	0	0	0	0	0	0	0	0
99	SIMAS	67	51	7	9	12	21	25	27	47	51	55	57	60
	ICAPS	81	78	71	74	81	0	0	0	0	0	0	0	0
100	SIMAS	69	54	6	9	12	20	25	27	47	51	55	57	60
	ICAPS	81	80	71	72	81	0	0	0	0	0	0	0	0
101	SIMAS	70	55	7	9	12	20	25	27	47	51	55	57	60
	ICAPS	93	86	71	71	82	88	90	92	93	0	0	0	0
102	SIMAS	71	59	7	9	12	20	25	27	47	49	55	57	71
	ICAPS	93	88	71	88	93	0	0	0	0	0	0	0	0
103	SIMAS	90	62	7	9	12	20	25	27	55	57	71	89	90
	ICAPS	103	93	71	85	93	102	103	0	0	0	0	0	0
104	SIMAS	90	62	7	9	12	20	25	27	55	57	71	89	90
	ICAPS	106	98	71	85	95	102	106	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 6 TARGET DEPTH 600

FOM	DATA	EMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
105	SIMAG	90	64	6	9	12	20	25	27	55	57	71	73	74
	ICAFS	106	98	82	85	95	102	106	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
 SENSOR 7 TARGET DEPTH 60

	FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	47	7	3	44	47	47	0	0	0	0	0	0	0	0
	ICAPS	47	7	3	44	47	47	0	0	0	0	0	0	0	0
82	SIMAS	47	7	3	44	47	47	0	0	0	0	0	0	0	0
	ICAPS	47	7	3	44	47	47	0	0	0	0	0	0	0	0
83	SIMAS	91	12	4	44	50	50	89	91	0	0	0	0	0	0
	ICAPS	49	9	3	44	49	49	0	0	0	0	0	0	0	0
84	SIMAS	91	14	4	44	50	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	4	43	51	51	0	0	0	0	0	0	0	0
85	SIMAS	91	16	5	43	50	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	4	43	51	51	0	0	0	0	0	0	0	0
86	SIMAS	91	16	5	43	50	50	89	91	0	0	0	0	0	0
	ICAPS	57	15	4	43	51	51	0	0	0	0	0	0	0	0
87	SIMAS	135	20	5	43	50	50	89	93	134	135	0	0	0	0
	ICAPS	89	17	6	43	51	51	88	89	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 20
 SENSOR 7 TARGET DEPTH 600

PGM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
84	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
85	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
86	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
87	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT SENSOR	DATA	MAX	TOTAL	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	50	17	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	51	0	0	0	0	0	0	0	0
94	SIMAS	50	17	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	51	0	0	0	0	0	0	0	0
95	SIMAS	89	19	50	83	89	0	0	0	0	0	0
	ICAPS	50	17	50	0	0	0	0	0	0	0	0
96	SIMAS	87	20	50	83	89	0	0	0	0	0	0
	ICAPS	52	17	52	0	0	0	0	0	0	0	0
97	SIMAS	89	20	50	83	89	0	0	0	0	0	0
	ICAPS	85	19	52	84	89	0	0	0	0	0	0
98	SIMAS	70	27	11	11	11	85	90	0	0	0	0
	ICAPS	85	22	52	84	85	0	0	0	0	0	0
99	SIMAS	73	30	11	11	11	85	93	0	0	0	0
	ICAPS	89	24	50	84	89	83	90	0	0	0	0
100	SIMAS	89	24	50	84	85	83	89	0	0	0	0
	ICAPS	89	24	50	84	85	83	89	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 50
 SENSOR 9 TARGET DEPTH 500

FOM	DATA	RMAX	INITIAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	49	12	4	42	49	0	0	0	0	0	0	0	0
	ICAPS	49	12	4	42	49	0	0	0	0	0	0	0	0
94	SIMAS	49	13	5	42	49	0	0	0	0	0	0	0	0
	ICAPS	50	14	4	41	50	0	0	0	0	0	0	0	0
95	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
96	SIMAS	50	14	5	42	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	4	41	51	0	0	0	0	0	0	0	0
97	SIMAS	50	15	5	41	50	0	0	0	0	0	0	0	0
	ICAPS	51	16	4	40	51	0	0	0	0	0	0	0	0
98	SIMAS	51	16	5	41	51	0	0	0	0	0	0	0	0
	ICAPS	51	17	5	40	51	0	0	0	0	0	0	0	0
99	SIMAS	51	17	5	41	51	0	0	0	0	0	0	0	0
	ICAPS	51	17	5	40	51	0	0	0	0	0	0	0	0
100	SIMAS	51	18	6	40	51	0	0	0	0	0	0	0	0
	ICAPS	52	18	5	40	52	0	0	0	0	0	0	0	0

SENSOR POSITION-VALUE CHART

ENVIRONMENT 3 SONAR DEPTH 80
 SENSOR 9 TARGET DEPTH 80

FOM	DATA	RMAX	RTOTAL	1	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	48	10	13	48	0	0	0	0	0	0	0	0
	ICAPS	46	9	12	45	0	0	0	0	0	0	0	0
94	SIMAS	49	12	12	49	0	0	0	0	0	0	0	0
	ICAPS	47	10	12	47	0	0	0	0	0	0	0	0
95	SIMAS	49	13	12	49	0	0	0	0	0	0	0	0
	ICAPS	47	12	11	48	0	0	0	0	0	0	0	0
96	SIMAS	49	13	12	49	0	0	0	0	0	0	0	0
	ICAPS	50	14	11	50	0	0	0	0	0	0	0	0
97	SIMAS	50	14	12	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	11	51	0	0	0	0	0	0	0	0
98	SIMAS	50	14	12	50	0	0	0	0	0	0	0	0
	ICAPS	51	15	11	51	0	0	0	0	0	0	0	0
99	SIMAS	50	15	11	51	0	0	0	0	0	0	0	0
	ICAPS	51	16	10	51	0	0	0	0	0	0	0	0
100	SIMAS	51	17	10	51	0	0	0	0	0	0	0	0
	ICAPS	51	17	10	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 9 TARGET BATHY 600

FOU	DATA	RMSS	ORIGINAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
93	SIMAS	97	83	7	9	11	22	48	54	73	85	88	96	97
	ICAFS	105	100	82	84	94	99	105	0	0	0	0	0	0
94	SIMAS	97	89	7	9	11	22	52	54	73	85	88	90	91
	ICAFS	117	107	82	84	94	97	106	114	117	0	0	0	0
95	SIMAS	113	81	7	9	13	22	75	85	88	90	91	95	97
	ICAFS	128	116	82	84	95	97	109	111	112	114	117	126	128
96	SIMAS	123	85	7	9	13	22	75	85	88	90	91	95	99
	ICAFS	129	123	82	84	95	97	121	126	129	0	0	0	0
97	SIMAS	123	86	7	9	13	22	75	85	91	95	99	101	104
	ICAFS	141	132	121	123	131	140	141	0	0	0	0	0	0
98	SIMAS	123	93	7	9	13	22	75	79	80	85	92	94	97
	ICAFS	141	136	121	123	132	135	136	139	141	0	0	0	0
99	SIMAS	123	99	7	9	13	22	75	79	83	85	92	94	104
	ICAFS	157	144	121	123	133	135	137	139	142	153	157	0	0
100	SIMAS	123	104	7	9	13	22	76	78	104	113	116	118	123
	ICAFS	166	154	133	135	145	149	150	152	157	165	166	0	0

ENVIRONMENT	0	SENSOR DEPTH	200
	SENSOR 15	TARGET DEPTH	60

[illegible]

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SOKAR DEPTH 200
 SENSOR 15 TARGET DEPTH 50

FUN	DATA	EMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	10	3	44	50	0	0	0	0	0	0	0	0
87	SIMAS	50	12	5	44	50	0	0	0	0	0	0	0	0
	ICAPS	51	11	3	44	51	0	0	0	0	0	0	0	0
88	SIMAS	71	15	7	44	50	90	91	0	0	0	0	0	0
	ICAPS	51	12	4	44	51	0	0	0	0	0	0	0	0
89	SIMAS	92	23	12	44	50	97	92	0	0	0	0	0	0
	ICAPS	51	18	5	43	51	0	0	0	0	0	0	0	0
90	SIMAS	73	31	18	45	50	89	93	0	0	0	0	0	0
	ICAPS	51	25	6	43	51	0	0	0	0	0	0	0	0
91	SIMAS	74	31	24	43	51	89	94	0	0	0	0	0	0
	ICAPS	51	24	7	42	51	0	0	0	0	0	0	0	0
92	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
93	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
94	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
95	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
96	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
97	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
98	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
99	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0
100	SIMAS	136	37	23	43	50	89	97	124	131	0	0	0	0
	ICAPS	51	27	7	43	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

DOCUMENT 6 SONAR DEPTH 200
 15 TARGET DEPTH 600

FM	DATA	RMAA	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	7	5	28	29	0	0	0	0	0	0	0	0
78	SIMAS	35	5	3	34	35	0	0	0	0	0	0	0	0
	ICAPS	29	10	5	23	25	28	29	0	0	0	0	0	0
79	SIMAS	35	7	3	30	31	34	35	0	0	0	0	0	0
	ICAPS	29	12	6	23	25	27	29	0	0	0	0	0	0
80	SIMAS	36	8	3	30	31	34	36	0	0	0	0	0	0
	ICAPS	32	14	6	23	25	27	29	31	32	0	0	0	0
81	SIMAS	33	12	3	30	38	0	0	0	0	0	0	0	0
	ICAPS	34	19	6	22	34	0	0	0	0	0	0	0	0
82	SIMAS	36	14	4	29	38	0	0	0	0	0	0	0	0
	ICAPS	49	22	7	22	34	48	49	0	0	0	0	0	0
83	SIMAS	68	20	4	29	39	62	63	66	68	0	0	0	0
	ICAPS	50	29	7	20	37	47	50	0	0	0	0	0	0
84	SIMAS	68	22	5	29	40	62	63	66	68	0	0	0	0
	ICAPS	75	37	7	20	39	46	55	0	0	0	0	0	0
85	SIMAS	99	28	5	29	41	62	69	98	99	0	0	0	0
	ICAPS	11	48	7	19	40	44	57	73	74	79	81	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 200
 SENSOR 15 TARGET DEPTH 600

FORM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	100	30	6	28	43	62	69	71	73	94	95	98	100
	ICAPS	93	62	8	19	58	60	61	63	64	72	75	78	81
87	SIMAS	131	50	6	27	48	61	73	94	95	97	101	130	131
	ICAPS	122	80	8	18	64	69	75	78	82	89	90	92	93
88	SIMAS	167	70	8	27	49	61	75	93	95	97	104	106	108
	ICAPS	152	107	8	18	76	78	82	84	85	88	102	104	105
89	SIMAS	167	82	9	26	49	61	76	92	104	106	108	124	127
	ICAPS	153	120	3	18	82	84	85	87	105	107	109	113	115
90	SIMAS	194	106	14	24	50	59	77	79	80	91	108	124	127
	ICAPS	179	140	8	12	13	17	82	84	85	87	108	112	125
91	SIMAS	200	129	19	23	50	59	82	89	108	123	138	141	143
	ICAPS	184	166	9	11	14	17	108	110	134	139	156	159	162
92	SIMAS	200	151	51	59	84	88	110	119	138	141	143	155	164
	ICAPS	195	188	9	11	14	17	136	138	156	158	169	171	191
93	SIMAS	200	165	51	59	86	88	113	119	144	152	153	155	171
	ICAPS	200	196	169	171	195	199	200	0	0	0	0	0	0
94	SIMAS	200	190	51	57	116	118	178	182	183	185	200	0	0
	ICAPS	200	198	196	199	200	0	0	0	0	0	0	0	0

SENSOR ENVIRONMENT

ENVIRONMENT 6 SURAR DEPTH 500
 SENSOR 15 TARGET DEPTH 50

FGM	DATA	IMAX	INTOTAL	RCOINT	RC1	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
83	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
84	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
85	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 50

FOV	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
86	SIMAS	49	10	4	44	49	0	0	0	0	0	0	0	0
	ICAFS	43	3	3	44	43	0	0	0	0	0	0	0	0
87	SIMAS	50	12	5	44	50	0	0	0	0	0	0	0	0
	ICAFS	51	11	3	44	51	0	0	0	0	0	0	0	0
88	SIMAS	50	15	7	43	50	0	0	0	0	0	0	0	0
	ICAFS	51	13	4	43	51	0	0	0	0	0	0	0	0
89	SIMAS	92	22	12	43	50	91	92	0	0	0	0	0	0
	ICAFS	51	14	5	43	51	0	0	0	0	0	0	0	0
90	SIMAS	92	31	13	43	51	89	92	0	0	0	0	0	0
	ICAFS	52	19	6	43	52	0	0	0	0	0	0	0	0
91	SIMAS	93	39	23	42	51	83	92	0	0	0	0	0	0
	ICAFS	52	27	7	43	52	0	0	0	0	0	0	0	0
92	SIMAS	71	27	12	42	51	69	70	0	0	0	0	0	0
	ICAFS	51	17	3	42	51	0	0	0	0	0	0	0	0
93	SIMAS	137	30	10	42	51	67	136	137	0	0	0	0	0
	ICAFS	97	25	9	42	49	62	97	0	0	0	0	0	0
94	SIMAS	137	30	10	42	51	67	136	137	0	0	0	0	0
	ICAFS	97	25	9	42	49	62	97	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6		SONAR DEPTH 500												
SENSOR 15		TARGET DEPTH 500												
FUM	DATA	RMAX	IRTOTAL	RCONT	R31	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
75	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAFS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAFS	5	5	5	0	0	0	0	0	0	0	0	0	0
77	SIMAS	6	6	6	0	0	0	0	0	0	0	0	0	0
	ICAFS	27	7	5	24	27	0	0	0	0	0	0	0	0
78	SIMAS	7	7	7	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	9	6	27	27	0	0	0	0	0	0	0	0
79	SIMAS	9	9	9	0	0	0	0	0	0	0	0	0	0
	ICAFS	30	14	6	22	27	29	30	0	0	0	0	0	0
80	SIMAS	40	14	9	36	40	0	0	0	0	0	0	0	0
	ICAFS	30	15	7	22	27	29	30	0	0	0	0	0	0
81	SIMAS	43	18	10	35	40	42	43	0	0	0	0	0	0
	ICAFS	33	21	8	21	33	0	0	0	0	0	0	0	0
82	SIMAS	43	20	11	35	43	0	0	0	0	0	0	0	0
	ICAFS	52	26	8	20	33	49	52	0	0	0	0	0	0
83	SIMAS	43	22	11	33	43	0	0	0	0	0	0	0	0
	ICAFS	27	38	9	19	37	46	52	75	77	0	0	0	0
84	SIMAS	94	26	11	33	44	92	94	0	0	0	0	0	0
	ICAFS	27	48	9	18	41	45	52	58	59	73	77	0	0
85	SIMAS	94	38	11	33	49	54	55	63	64	88	90	92	94
	ICAFS	80	63	9	17	55	61	62	72	80	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 500
 SENSOR 15 TARGET DEPTH 600

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
36	SIMAS	98	44	12	33	49	54	55	60	61	63	64	88	90
	ICAPS	120	77	10	16	59	61	62	65	66	72	80	82	83
37	SIMAS	123	58	14	32	49	54	55	59	61	63	65	84	90
	ICAPS	127	98	10	16	80	82	84	86	88	90	98	100	102
38	SIMAS	153	70	14	32	50	54	55	59	61	63	65	84	101
	ICAPS	153	126	11	15	84	86	108	110	111	116	117	119	128
39	SIMAS	153	82	14	32	50	53	55	59	61	63	65	79	80
	ICAPS	157	140	11	15	108	110	132	141	142	144	147	149	150
40	SIMAS	183	26	14	32	55	59	61	63	65	79	80	84	106
	ICAPS	190	162	11	14	132	134	139	141	150	152	153	155	159
41	SIMAS	192	124	19	32	56	59	61	63	65	78	108	120	136
	ICAPS	193	177	12	14	159	162	168	174	181	189	190	192	193
42	SIMAS	197	147	23	32	56	59	61	63	65	77	108	120	155
	ICAPS	199	185	12	14	160	162	168	172	181	185	187	189	190
43	SIMAS	198	159	26	32	61	63	65	77	108	120	158	166	167
	ICAPS	200	197	187	189	190	192	196	198	200	0	0	0	0
44	SIMAS	198	164	29	32	61	63	65	77	108	120	158	166	167
	ICAPS	200	199	190	192	200	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 2 SONAR DEPTH 50
 SENSOR 19 TARGET DEPTH 50

FUM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R23	R24	R25	R26	R27	R28	R29	R30	R31	R32	R33	R34	R35	R36	R37	R38	R39	R40	R41	R42	R43	R44	R45	R46	R47	R48	R49	R50	R51	R52	R53	R54	R55	R56	R57	R58	R59	R60	R61	R62	R63	R64	R65	R66	R67	R68	R69	R70	R71	R72	R73	R74	R75	R76	R77	R78	R79	R80	R81	R82	R83	R84	R85	R86	R87	R88	R89	R90	R91	R92	R93	R94	R95	R96	R97	R98	R99	R100	R101	R102	R103	R104	R105	R106	R107	R108	R109	R110	R111	R112	R113	R114	R115	R116	R117	R118	R119	R120	R121	R122	R123	R124	R125	R126	R127	R128	R129	R130	R131	R132	R133	R134	R135	R136	R137	R138	R139	R140	R141	R142	R143	R144	R145	R146	R147	R148	R149	R150	R151	R152	R153	R154	R155	R156	R157	R158	R159	R160	R161	R162	R163	R164	R165	R166	R167	R168	R169	R170	R171	R172	R173	R174	R175	R176	R177	R178	R179	R180	R181	R182	R183	R184	R185	R186	R187	R188	R189	R190	R191	R192	R193	R194	R195	R196	R197	R198	R199	R200	R201	R202	R203	R204	R205	R206	R207	R208	R209	R210	R211	R212	R213	R214	R215	R216	R217	R218	R219	R220	R221	R222	R223	R224	R225	R226	R227	R228	R229	R230	R231	R232	R233	R234	R235	R236	R237	R238	R239	R240	R241	R242	R243	R244	R245	R246	R247	R248	R249	R250	R251	R252	R253	R254	R255	R256	R257	R258	R259	R260	R261	R262	R263	R264	R265	R266	R267	R268	R269	R270	R271	R272	R273	R274	R275	R276	R277	R278	R279	R280	R281	R282	R283	R284	R285	R286	R287	R288	R289	R290	R291	R292	R293	R294	R295	R296	R297	R298	R299	R300	R301	R302	R303	R304	R305	R306	R307	R308	R309	R310	R311	R312	R313	R314	R315	R316	R317	R318	R319	R320	R321	R322	R323	R324	R325	R326	R327	R328	R329	R330	R331	R332	R333	R334	R335	R336	R337	R338	R339	R340	R341	R342	R343	R344	R345	R346	R347	R348	R349	R350	R351	R352	R353	R354	R355	R356	R357	R358	R359	R360	R361	R362	R363	R364	R365	R366	R367	R368	R369	R370	R371	R372	R373	R374	R375	R376	R377	R378	R379	R380	R381	R382	R383	R384	R385	R386	R387	R388	R389	R390	R391	R392	R393	R394	R395	R396	R397	R398	R399	R400	R401	R402	R403	R404	R405	R406	R407	R408	R409	R410	R411	R412	R413	R414	R415	R416	R417	R418	R419	R420	R421	R422	R423	R424	R425	R426	R427	R428	R429	R430	R431	R432	R433	R434	R435	R436	R437	R438	R439	R440	R441	R442	R443	R444	R445	R446	R447	R448	R449	R450	R451	R452	R453	R454	R455	R456	R457	R458	R459	R460	R461	R462	R463	R464	R465	R466	R467	R468	R469	R470	R471	R472	R473	R474	R475	R476	R477	R478	R479	R480	R481	R482	R483	R484	R485	R486	R487	R488	R489	R490	R491	R492	R493	R494	R495	R496	R497	R498	R499	R500	R501	R502	R503	R504	R505	R506	R507	R508	R509	R510	R511	R512	R513	R514	R515	R516	R517	R518	R519	R520	R521	R522	R523	R524	R525	R526	R527	R528	R529	R530	R531	R532	R533	R534	R535	R536	R537	R538	R539	R540	R541	R542	R543	R544	R545	R546	R547	R548	R549	R550	R551	R552	R553	R554	R555	R556	R557	R558	R559	R560	R561	R562	R563	R564	R565	R566	R567	R568	R569	R570	R571	R572	R573	R574	R575	R576	R577	R578	R579	R580	R581	R582	R583	R584	R585	R586	R587	R588	R589	R590	R591	R592	R593	R594	R595	R596	R597	R598	R599	R600	R601	R602	R603	R604	R605	R606	R607	R608	R609	R610	R611	R612	R613	R614	R615	R616	R617	R618	R619	R620	R621	R622	R623	R624	R625	R626	R627	R628	R629	R630	R631	R632	R633	R634	R635	R636	R637	R638	R639	R640	R641	R642	R643	R644	R645	R646	R647	R648	R649	R650	R651	R652	R653	R654	R655	R656	R657	R658	R659	R660	R661	R662	R663	R664	R665	R666	R667	R668	R669	R670	R671	R672	R673	R674	R675	R676	R677	R678	R679	R680	R681	R682	R683	R684	R685	R686	R687	R688	R689	R690	R691	R692	R693	R694	R695	R696	R697	R698	R699	R700	R701	R702	R703	R704	R705	R706	R707	R708	R709	R710	R711	R712	R713	R714	R715	R716	R717	R718	R719	R720	R721	R722	R723	R724	R725	R726	R727	R728	R729	R730	R731	R732	R733	R734	R735	R736	R737	R738	R739	R740	R741	R742	R743	R744	R745	R746	R747	R748	R749	R750	R751	R752	R753	R754	R755	R756	R757	R758	R759	R760	R761	R762	R763	R764	R765	R766	R767	R768	R769	R770	R771	R772	R773	R774	R775	R776	R777	R778	R779	R780	R781	R782	R783	R784	R785	R786	R787	R788	R789	R790	R791	R792	R793	R794	R795	R796	R797	R798	R799	R800	R801	R802	R803	R804	R805	R806	R807	R808	R809	R810	R811	R812	R813	R814	R815	R816	R817	R818	R819	R820	R821	R822	R823	R824	R825	R826	R827	R828	R829	R830	R831	R832	R833	R834	R835	R836	R837	R838	R839	R840	R841	R842	R843	R844	R845	R846	R847	R848	R849	R850	R851	R852	R853	R854	R855	R856	R857	R858	R859	R860	R861	R862	R863	R864	R865	R866	R867	R868	R869	R870	R871	R872	R873	R874	R875	R876	R877	R878	R879	R880	R881	R882	R883	R884	R885	R886	R887	R888	R889	R890	R891	R892	R893	R894	R895	R896	R897	R898	R899	R900	R901	R902	R903	R904	R905	R906	R907	R908	R909	R910	R911	R912	R913	R914	R915	R916	R917	R918	R919	R920	R921	R922	R923	R924	R925	R926	R927	R928	R929	R930	R931	R932	R933	R934	R935	R936	R937	R938	R939	R940	R941	R942	R943	R944	R945	R946	R947	R948	R949	R950	R951	R952	R953	R954	R955	R956	R957	R958	R959	R960	R961	R962	R963	R964	R965	R966	R967	R968	R969	R970	R971	R972	R973	R974	R975	R976	R977	R978	R979	R980	R981	R982	R983	R984	R985	R986	R987	R988	R989	R990	R991	R992	R993	R994	R995	R996	R997	R998	R999	R1000	R1001	R1002	R1003	R1004	R1005	R1006	R1007	R1008	R1009	R1010	R1011	R1012	R1013	R1014	R1015	R1016	R1017	R1018	R1019	R1020	R1021	R1022	R1023	R1024	R1025	R1026	R1027	R1028	R1029	R1030	R1031	R1032	R1033	R1034	R1035	R1036	R1037	R1038	R1039	R1040	R1041	R1042	R1043	R1044	R1045	R1046	R1047	R1048	R1049	R1050	R1051	R1052	R1053	R1054	R1055	R1056	R1057	R1058	R1059	R1060	R1061	R1062	R1063	R1064	R1065	R1066	R1067	R1068	R1069	R1070	R1071	R1072	R1073	R1074	R1075	R1076	R1077	R1078	R1079	R1080	R1081	R1082	R1083	R1084	R1085	R1086	R1087	R1088	R1089	R1090	R1091	R1092	R1093	R1094	R1095	R1096	R1097	R1098	R1099	R1100	R1101	R1102	R1103	R1104	R1105	R1106	R1107	R1108	R1109	R1110	R1111	R1112	R1113	R1114	R1115	R1116	R1117	R1118	R1119	R1120	R1121	R1122	R1123	R1124	R1125	R1126	R1127	R1128	R1129	R1130	R1131	R1132	R1133	R1134	R1135	R1136	R1137	R1138	R1139	R1140	R1141	R1142	R1143	R1144	R1145	R1146	R1147	R1148	R1149	R1150	R1151	R1152	R1153	R1154	R1155	R1156	R1157	R1158	R1159	R1160	R1161	R1162	R1163	R1164	R1165	R1166	R1167	R1168	R1169	R1170	R1171	R1172	R1173	R1174	R1175	R1176	R1177	R1178	R1179	R1180	R1181	R1182	R1183	R1184	R1185	R1186	R1187	R1188	R1189	R1190	R1191	R1192	R1193	R1194	R1195	R1196	R1197	R1198	R1199	R1200	R1201	R1202	R1203	R1204	R1205	R1206	R1207	R1208	R1209	R1210	R1211	R1212	R1213	R1214	R1215	R1216	R1217	R1218	R1219	R1220	R1221	R1222	R1223	R1224	R1225	R1226	R1227	R1228	R1229	R1230	R1231	R1232	R1233	R1234	R1235	R1236	R1237	R1238	R1239	R1240	R1241	R1242	R1243	R1244	R1245	R1246	R1247	R1248	R1249	R1250	R1251	R1252	R1253	R1254	R1255	R1256	R1257	R1258	R1259	R1260	R1261	R1262	R1263	R1264	R1265	R1266	R1267	R1268	R1269	R1270	R1271	R1272	R1273	R1274	R1275	R1276	R1277	R1278	R1279	R1280	R1281	R1282	R1283	R1284	R1285	R1286	R1287	R1288	R1289	R1290	R1291	R1292	R1293	R1294	R1295	R1296	R1297	R1298	R1299	R1300	R1301	R1302	R1303	R1304	R1305	R1306	R1307	R1308	R1309	R1310	R1311	R1312	R1313	R1314	R1315	R1316	R1317	R1318	R1319	R1320	R1321	R1322	R1323	R1324	R1325	R1326	R1327	R1328	R1329	R1330	R1331	R1332	R1333	R1334	R1335	R1336	R1337	R1338	R1339	R1340	R1341	R1342	R1343	R1344	R1345	R1346	R1347	R1348	R1349	R1350	R1351	R1352	R1353	R1354	R1355	R1356	R1357	R1358	R1359	R1360	R1361	R1362	R1363	R1364	R1365	R1366	R1367	R1368	R1369	R1370	R1371	R1372	R1373	R1374	R1375	R1376	R1377	R1378	R1379	R1380	R1381	R1382	R1383	R1384	R1385	R1386	R1387	R1388	R1389	R1390	R1391	R1392	R1393	R1394	R1395	R1396	R1397	R1398	R1399	R1400	R1401	R1402	R1403	R1404	R1405	R1406	R1407	R1408	R1409	R1410	R1411	R1412	R1413	R1414	R1415	R1416	R1417	R1418	R1419	R1420	R1421	R1422	R1423	R1424	R1425	R1426	R1427	R1428	R1429	R1430	R1431	R1432	R1433	R1434	R1435	R1436	R1437	R1438	R1439	R1440	R1441	R1442	R1443	R1444	R1445	R1446	R1447	R1448	R1449	R1450	R1451	R1452	R1453	R1454	R1455	R1456	R1457	R1458	R1459	R1460	R1461	R1462	R1463	R1464	R1465	R1466	R1467	R1468	R1469	R1470	R1471	R1472	R1473	R1474	R1475	R1476	R1477	R1478	R1479	R1480	R1481	R1482	R1483	R1484	R1485	R1486	R1487	R1488	R1489	R1490	R1491	R1492	R1493	R1494</
-----	------	------	--------	--------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	---------

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6		SONAR DEPTH 60		SENSOR 19		TARGET DEPTH 60														
FOM	DATA	RMAX	IRTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62						
92	SIMAS	181	73	37	39	51	88	100	133	139	179	181	0	0						
	ICAPS	102	35	9	41	52	88	89	91	102	0	0	0	0						
93	SIMAS	181	78	51	87	100	133	142	179	181	0	0	0	0						
	ICAPS	103	39	10	40	52	87	89	91	103	0	0	0	0						
94	SIMAS	184	94	52	87	101	133	143	178	181	183	184	0	0						
	ICAPS	103	45	10	36	53	87	103	0	0	0	0	0	0						

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
 SENSOR 19 TARGET DEPTH 600

FGM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	43	4	4	46	48	0	0	0	0	0	0	0	0
	ICAPS	47	5	3	46	47	0	0	0	0	0	0	0	0
85	SIMAS	43	4	4	44	45	0	0	0	0	0	0	0	0
	ICAPS	43	3	3	43	43	0	0	0	0	0	0	0	0
86	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
87	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
88	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
89	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
90	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
91	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
92	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
93	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
94	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
95	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
96	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
97	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
98	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
99	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
100	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0

ENVIRONMENT	6	SONAR DEPTH	60
SENSOR	19	TARGET DEPTH	600

[illegible]

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 60

FOI	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAFS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	47	6	4	46	47	0	0	0	0	0	0	0	0
	ICAFS	47	5	3	46	47	0	0	0	0	0	0	0	0
85	SIMAS	48	9	4	44	43	0	0	0	0	0	0	0	0
	ICAFS	48	6	3	45	4	0	0	0	0	0	0	0	0
86	SIMAS	49	10	4	44	43	0	0	0	0	0	0	0	0
	ICAFS	50	11	4	44	51	0	0	0	0	0	0	0	0
87	SIMAS	50	12	4	42	43	0	0	0	0	0	0	0	0
	ICAFS	50	12	4	42	43	0	0	0	0	0	0	0	0
88	SIMAS	50	15	7	43	51	0	0	0	0	0	0	0	0
	ICAFS	51	13	4	43	43	0	0	0	0	0	0	0	0
89	SIMAS	52	14	7	43	43	0	0	0	0	0	0	0	0
	ICAFS	52	14	7	43	43	0	0	0	0	0	0	0	0
90	SIMAS	92	18	10	40	50	11	92	0	0	0	0	0	0
	ICAFS	92	17	7	40	50	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 60C
 SENSOR 19 TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	96	46	27	42	51	89	96	0	0	0	0	0	0
	ICAPS	52	19	8	42	52	0	0	0	0	0	0	0	0
93	SIMAS	137	57	32	41	51	88	99	136	137	0	0	0	0
	ICAPS	97	25	8	42	52	92	97	0	0	0	0	0	0
94	SIMAS	137	65	36	41	52	88	100	133	134	136	137	0	0
	ICAPS	99	30	9	41	52	91	99	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 600

FOU	DATA	KMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
80	SIMAS	37	18	9	24	25	29	32	35	37	0	0	0	0
	ICAPS	35	21	8	23	35	0	0	0	0	0	0	0	0
81	SIMAS	66	21	9	24	25	29	32	34	37	65	66	0	0
	ICAPS	51	26	8	20	35	50	51	0	0	0	0	0	0
82	SIMAS	68	29	11	24	25	29	32	34	39	59	60	65	68
	ICAPS	52	28	9	20	35	50	52	0	0	0	0	0	0
83	SIMAS	90	34	11	24	25	29	32	34	39	54	55	58	60
	ICAPS	52	36	9	17	35	45	52	0	0	0	0	0	0
84	SIMAS	93	43	11	24	25	29	32	34	40	42	45	54	55
	ICAPS	81	54	10	16	43	45	52	56	59	71	72	80	81
85	SIMAS	98	54	11	23	25	27	32	34	40	42	45	54	55
	ICAPS	82	62	10	16	52	54	59	61	62	71	72	76	77
86	SIMAS	98	66	11	13	15	23	25	27	46	54	55	57	73
	ICAPS	103	74	10	15	59	61	62	67	68	70	72	76	77
87	SIMAS	148	85	11	13	16	23	25	27	49	54	55	57	74
	ICAPS	152	99	11	15	63	67	72	76	78	80	82	84	85
88	SIMAS	166	96	11	13	16	23	50	54	55	57	74	76	77
	ICAPS	161	117	11	15	73	75	82	84	85	87	88	90	103
89	SIMAS	177	118	11	13	16	19	21	23	50	52	55	57	74
	ICAPS	188	141	11	14	73	75	82	84	88	90	109	111	125
90	SIMAS	186	136	16	19	55	57	77	81	95	97	98	100	102
	ICAPS	188	159	11	14	109	111	125	127	135	141	156	160	162
91	SIMAS	200	164	78	80	104	108	125	131	135	138	144	146	157
	ICAPS	196	178	12	14	156	159	162	165	166	168	169	171	179

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 600
 SENSOR 19 TARGET DEPTH 600

700	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
92	SIMAS	200	184	78	80	104	108	125	127	129	131	136	138	144
	ICAPS	196	184	12	14	157	159	166	168	179	182	185	187	183
93	SIMAS	200	195	106	108	125	127	153	165	174	176	193	195	200
	ICAPS	200	196	12	14	157	159	185	187	188	190	200	0	0
94	SIMAS	200	198	106	108	163	165	200	0	0	0	0	0	0
	ICAPS	200	197	157	159	185	187	188	190	200	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 60
 SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	94	0	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	94	0	0	0	0	0	0	0	0	0	0	0	0
67	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	94	0	0	0	0	0	0	0	0	0	0	0	0
68	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0	0
69	SIMAS	200	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3		SONAR DEPTH 60												
SENSOR 23 L		TARGET DEPTH 50												
FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	47	6	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	47	5	2	45	47	0	0	0	0	0	0	0	0
82	SIMAS	49	9	3	44	49	0	0	0	0	0	0	0	0
	ICAPS	48	7	3	45	48	0	0	0	0	0	0	0	0
83	SIMAS	49	9	3	44	49	0	0	0	0	0	0	0	0
	ICAPS	49	9	3	44	49	0	0	0	0	0	0	0	0
84	SIMAS	91	11	3	44	49	90	91	0	0	0	0	0	0
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0
85	SIMAS	91	14	5	44	50	90	91	0	0	0	0	0	0
	ICAPS	51	12	4	44	51	0	0	0	0	0	0	0	0
86	SIMAS	91	16	6	44	50	89	91	0	0	0	0	0	0
	ICAPS	51	13	5	44	51	0	0	0	0	0	0	0	0
87	SIMAS	94	22	8	43	50	89	94	0	0	0	0	0	0
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0
88	SIMAS	94	25	11	43	50	89	94	0	0	0	0	0	0
	ICAPS	51	15	6	43	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 50
 SENSOR 23L TARGET DEPTH 500

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6		SONAR DEPTH 60		SONAR 23 L		TARGET DEPTH 600															
FOR	DATA	MAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62							
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0							
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0							
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0							
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0							
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0							
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0							
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0							
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0							
81	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0							
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0							
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0							
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0							
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0							
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0							
84	SIMAS	48	7	4	46	48	0	0	0	0	0	0	0	0							
	ICAPS	47	5	3	46	47	0	0	0	0	0	0	0	0							
85	SIMAS	48	9	4	44	48	0	0	0	0	0	0	0	0							
	ICAPS	48	6	3	46	48	0	0	0	0	0	0	0	0							
86	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0							
	ICAPS	50	11	4	44	50	0	0	0	0	0	0	0	0							
87	SIMAS	50	12	4	43	50	0	0	0	0	0	0	0	0							
	ICAPS	50	12	4	43	50	0	0	0	0	0	0	0	0							
88	SIMAS	50	15	7	43	50	0	0	0	0	0	0	0	0							
	ICAPS	51	14	5	43	51	0	0	0	0	0	0	0	0							

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
 SENSOR 23 L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
 SENSOR 23L TARGET DEPTH 60

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	47	6	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	47	6	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	48	8	3	44	48	0	0	0	0	0	0	0	0
	ICAPS	40	7	3	45	43	0	0	0	0	0	0	0	0
86	SIMAS	47	10	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
87	SIMAS	50	11	4	44	50	0	0	0	0	0	0	0	0
	ICAPS	40	10	3	45	43	0	0	0	0	0	0	0	0
88	SIMAS	47	10	3	45	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
 JUNE 31 TARGET DEPTH 600

FLM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
65	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
73	SIMAS	2	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
76	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
 231 TARGET DEPTH 600

100	DATA	KMAX	TOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
77	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	7	5	28	29	0	0	0	0	0	0	0	0
78	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	29	7	5	28	29	0	0	0	0	0	0	0	0
79	SIMAS	32	8	4	27	28	31	32	0	0	0	0	0	0
	ICAPS	29	12	6	24	29	0	0	0	0	0	0	0	0
80	SIMAS	34	11	4	27	28	30	34	0	0	0	0	0	0
	ICAPS	31	15	6	23	31	0	0	0	0	0	0	0	0
81	SIMAS	34	14	4	6	8	27	28	30	34	0	0	0	0
	ICAPS	34	19	6	22	34	0	0	0	0	0	0	0	0
82	SIMAS	34	15	4	6	8	26	28	30	34	0	0	0	0
	ICAPS	49	23	7	21	34	48	49	0	0	0	0	0	0
83	SIMAS	62	21	9	26	28	30	34	38	39	61	62	0	0
	ICAPS	50	26	7	21	35	47	50	0	0	0	0	0	0
84	SIMAS	62	29	10	25	28	30	36	38	40	56	57	60	62
	ICAPS	79	45	7	20	39	45	56	73	75	77	79	0	0
85	SIMAS	86	35	10	25	40	56	57	60	64	85	86	0	0
	ICAPS	79	51	8	19	40	45	59	73	75	77	79	0	0
86	SIMAS	116	47	10	25	43	55	64	85	87	90	92	115	116
	ICAPS	99	64	0	18	61	72	79	82	83	98	99	0	0
87	SIMAS	116	55	10	24	43	45	48	55	66	85	88	90	92
	ICAPS	124	82	8	18	64	70	80	82	83	88	90	92	93
88	SIMAS	116	69	10	22	48	54	70	72	73	83	93	115	116
	ICAPS	125	92	8	17	64	66	80	82	83	88	94	97	100

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR TESTS 60
 SENSOR 23H TARGET TESTS 60

FOM	DATA	RMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	0	0	0	0	0	0	0	0	0	0	0	0
64	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	50	0	0	0	0	0	0	0	0	0	0	0	0
65	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	125	0	0	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 50
 SENSOR 23H TARGET DEPTH 50

FOM	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	47	5	2	45	47	0	0	0	0	0	0	0	0
	ICAPS	46	5	3	45	46	0	0	0	0	0	0	0	0
81	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	46	5	3	45	46	0	0	0	0	0	0	0	0
82	SIMAS	47	7	3	44	47	0	0	0	0	0	0	0	0
	ICAPS	46	6	3	44	46	0	0	0	0	0	0	0	0
83	SIMAS	48	8	3	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	8	3	44	48	0	0	0	0	0	0	0	0
84	SIMAS	48	9	4	44	48	0	0	0	0	0	0	0	0
	ICAPS	48	8	3	44	48	0	0	0	0	0	0	0	0
85	SIMAS	50	12	5	44	50	0	0	0	0	0	0	0	0
	ICAPS	51	12	3	43	51	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6				SONAR DEPTH 50																				
SENSOR 23H				TARGET DEPTH 000																				
FOM	DATA	RMGA	RTOTAL	RCOUNT	R01	R02	R31	R32	R41	R42	R51	R52	R61	R62										
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									
73	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0	0									
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0	0									

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 3 SENSOR 23H 30
 SENSOR 23H TARGET 23H 300

FOM	DATA	RMAX	CRYSTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
76	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
84	SIMAS	47	5	3	46	47	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
85	SIMAS	48	6	3	46	48	0	0	0	0	0	0	0	0
	ICAPS	47	7	3	44	47	0	0	0	0	0	0	0	0

SONAR PERFORMANCE CHART

ENVIRONMENT 6 SONAR TEST 300
 SENSOR 33H TARGET DEPTH 50

FOM	DATA	KMAX	RYOTAL	RCOUNT	R01	R02	R03	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	1	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
64	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
65	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	47	0	0	0	0	0	0	0	0	0	0	0	0
66	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
67	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
68	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
69	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
70	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
71	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
72	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
73	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
 SENSOR 23H TARGET DEPTH 30

FOR	DATA	RMX	RTOTAL	KCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
75	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
76	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
77	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
78	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
79	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
80	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
81	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
82	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
83	SIMAS	2	2	2	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
84	SIMAS	46	4	2	45	46	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
85	SIMAS	47	6	2	44	47	0	0	0	0	0	0	0	0
	ICAPS	47	6	3	45	47	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART

ENVIRONMENT 6 SONAR DEPTH 300
 SENSOR 2311 TARGET DEPTH 600

FUN	DATA	RMAX	RTOTAL	RCOUNT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
62	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	1	1	1	0	0	0	0	0	0	0	0	0	0
63	SIMAS	1	1	1	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
64	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
65	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	2	2	2	0	0	0	0	0	0	0	0	0	0
66	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
67	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
68	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
69	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
70	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	3	3	3	0	0	0	0	0	0	0	0	0	0
71	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	4	4	4	0	0	0	0	0	0	0	0	0	0
72	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0
73	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	5	5	5	0	0	0	0	0	0	0	0	0	0

SENSOR PERFORMANCE CHART (CONT.)

ENVIRONMENT 6 SONAR DEPTH 300
 SENSOR 23H TARGET DEPTH 600

FORM	DATA	KMAX	RTOTAL	RCONT	R21	R22	R31	R32	R41	R42	R51	R52	R61	R62
74	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	6	6	6	0	0	0	0	0	0	0	0	0	0
75	SIMAS	3	3	3	0	0	0	0	0	0	0	0	0	0
	ICAPS	7	7	7	0	0	0	0	0	0	0	0	0	0
76	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	8	8	8	0	0	0	0	0	0	0	0	0	0
77	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	28	11	9	27	28	0	0	0	0	0	0	0	0
78	SIMAS	5	5	5	0	0	0	0	0	0	0	0	0	0
	ICAPS	30	15	9	22	23	27	30	0	0	0	0	0	0
79	SIMAS	28	7	5	27	28	0	0	0	0	0	0	0	0
	ICAPS	30	23	10	18	30	0	0	0	0	0	0	0	0
80	SIMAS	33	11	5	26	26	31	33	0	0	0	0	0	0
	ICAPS	34	29	11	17	34	0	0	0	0	0	0	0	0
81	SIMAS	34	12	5	26	28	31	34	0	0	0	0	0	0
	ICAPS	34	31	11	15	34	0	0	0	0	0	0	0	0
82	SIMAS	34	12	5	26	28	31	34	0	0	0	0	0	0
	ICAPS	54	45	36	43	48	52	54	0	0	0	0	0	0
83	SIMAS	37	17	7	26	28	30	34	36	37	0	0	0	0
	ICAPS	59	55	37	42	59	0	0	0	0	0	0	0	0
84	SIMAS	39	20	7	26	28	30	39	0	0	0	0	0	0
	ICAPS	67	61	59	68	69	0	0	0	0	0	0	0	0
85	SIMAS	62	25	7	25	40	61	62	0	0	0	0	0	0
	ICAPS	85	72	62	68	75	79	80	0	0	0	0	0	0

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER NORDA Technical Note 73	2. GOVT ACCESSION NO. AD-A098 932	3. RECIPIENT'S CATALOG NUMBER
4. TITLE (and Subtitle) Acoustic Model Sensitivity to Input Data Differences: Objective Analysis Scheme Outputs, Volume II		5. TYPE OF REPORT & PERIOD COVERED Final 1 Oct 79 - 30 Sep 80
7. AUTHOR(s) Burlie A. Brunson		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Naval Ocean Research & Development Activity Ocean Science & Technology Laboratory, Code 321 NSTL Station, Mississippi 39529		8. CONTRACT OR GRANT NUMBER(s)
11. CONTROLLING OFFICE NAME AND ADDRESS Naval Ocean Research & Development Activity Code 530 NSTL Station, Mississippi 39529		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS Program Element 63708N Work Unit 93210A-00
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE September 1980
		13. NUMBER OF PAGES
		15. SECURITY CLASS. (of this report) UNCLASSIFIED
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
16. DISTRIBUTION STATEMENT (of this Report) Unlimited		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Acoustic Models Sensitivity Data Base Environmental Data		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This volume of the Acoustic Model Sensitivity to Input Data Differences report contains the printed and graphical outputs of the objective analysis scheme employed in the determination of the acoustic model sensitivity to input data differences observed in a comparison of the SIMAS and ICAPS data bases. These outputs serve to substantiate the observations and conclusions contained in Volume I of this report. The sensor ID codes provided on each plot or printout allow the reader to determine the sensor configuration used in each analysis case. The key is provided in Table D1 of Volume I.		

DD FORM 1473
1 JAN 73EDITION OF 1 NOV 65 IS OBSOLETE
S/N 0102-LF-014-6601

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

DATE
FILME